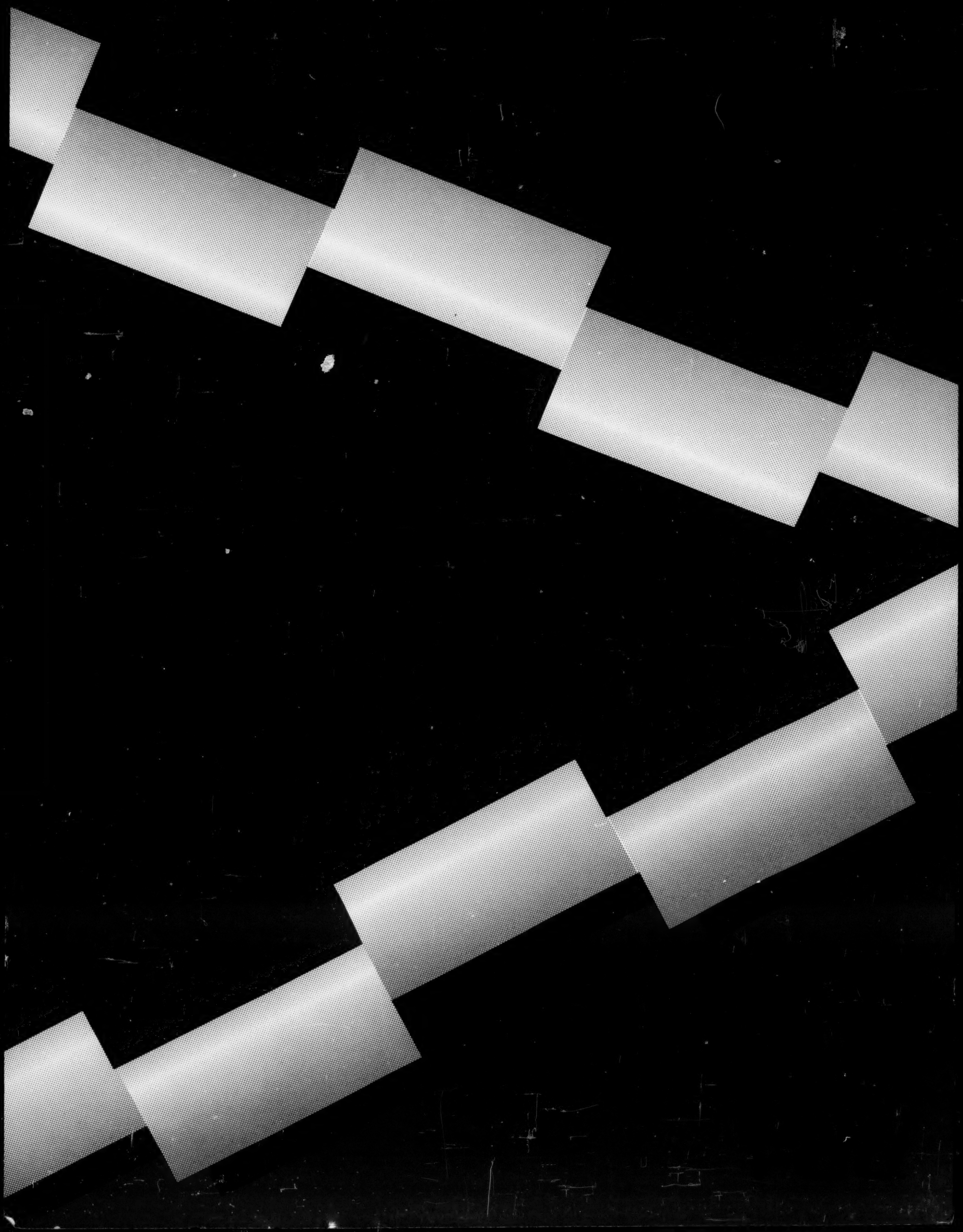


PUBLICATION SCHEDULE FOR 1989

BBA is published according to a volume-numbering scheme that embraces all sections of the journal. In addition, each regular section has its own sequential volume-numbering system, running parallel to the overall BBA scheme, as set out below. [a]
Full subscription: 42 volumes plus Cumulative Index 1988.

	BIO-ENERGETICS including Reviews on Bioenergetics 5 volumes	BIO-MEMBRANES 11 volumes [b]	GENERAL SUBJECTS 4 volumes	PROTEIN STRUCTURE AND MOLECULAR ENZYMOLOGY 6 volumes	LIPIDS AND LIPID METABOLISM 6 volumes	GENE STRUCTURE AND EXPRESSION 3 volumes	MOLECULAR CELL RESEARCH 5 volumes	
Jan.	973-1 = B90-1	978-1 = M165-1 978-2 = M165-2	990-1 = G134-1	994-1 = P51-1 994-2 = P51-2	1001-1 = L94-1 1001-2 = L94-2	1007-1 = N23-1	1010-1 = C27-1 1010-2 = C27-2	SPECIAL CELEBRATION VOLUME 1000 [c]
Feb.	973-2 = B90-2 973-3 = B90-3	979-1 = M166-1 979-2 = M166-2 979-3 = M166-3	990-2 = G134-2	994-3 = P51-3	1001-3 = L94-3	1007-2 = N23-2	1010-3 = C27-3	
March	974-1 = B91-1	980-1 = M167-1	990-3 = G134-3	995-1 = P52-1	1002-1 = L95-1		1011-1 = C28-1	
April	974-2 = B91-2	980-2 = M167-2 980-3 = M167-3	991-1 = G135-1	995-2 = P52-2	1002-2 = L95-2	1007-3 = N23-3	1011-2 = C28-2	BBA REVIEW SECTIONS
May	974-3 = B91-3	981-1 = M168-1 981-2 = M168-2	991-2 = G135-2	995-3 = P52-3	1002-3 = L95-3	1008-1 = N24-1	1011-3 = C28-3	
June	975-1 = B92-1	982-1 = M169-1	991-3 = G135-3	996-1 = P53-1 996-2 = P53-2	1003-1 = L96-1 1003-2 = L96-2		1012-1 = C29-1	
July	975-2 = B92-2 975-3 = B92-3	982-2 = M169-2 983-1 = M170-1 983-2 = M170-2	992-1 = G136-1	996-3 = P53-3 997-1 = P54-1	1003-3 = L96-3 1004-1 = L97-1	1008-2 = N24-2	1012-2 = C29-2 1012-3 = C29-3	BBA REVIEWS ON BIOMEMBRANES
Aug.	976-1 = B93-1	984-1 = M171-1	992-2 = G136-2	997-2 = P54-2	1004-2 = L97-2		1013-1 = C30-1	988-1 = MR18-1
Sept.	976-2 = B93-2	984-2 = M171-2 984-3 = M171-3		997-3 = P54-3	1004-3 = L97-3	1008-3 = N24-3	1013-2 = C30-2	988-2 = MR18-2 988-3 = MR18-3
Oct.	976-3 = B93-3	985-1 = M172-1 985-2 = M172-2 985-3 = M172-3	992-3 = G136-3 993-1 = G137-1	998-1 = P55-1 998-2 = P55-2	1005-1 = L98-1 1005-2 = L98-2	1009-1 = N25-1	1013-3 = C30-3	BBA REVIEWS ON CANCER
Nov.	977-1 = B94-1 977-2 = B94-2	986-1 = M173-1 986-2 = M173-2	993-2 = G137-2	998-3 = P55-3 999-1 = P56-1	1005-3 = L98-3 1006-1 = L99-1	1009-2 = N25-2	1014-1 = C31-1 1014-2 = C31-2	989-1 = CR16-1 989-2 = CR16-2
Dec.	977-3 = B94-3	987-1 = M174-1 987-2 = M174-2	993-3 = G137-3	999-2 = P56-2 999-3 = P56-3	1006-2 = L99-2 1006-3 = L99-3	1009-3 = N25-3	1014-3 = C31-3	989-3 = CR16-3

[a] All claims and subscription orders must employ the overall numbering scheme.
[b] This includes BBA Reviews on Biomembranes, Vol. 988.
[c] Included for all full-set subscribers.

INFORMATION FOR CONTRIBUTORS TO BIOCHIMICA ET BIOPHYSICA ACTA

The 1982 edition of this booklet, offering detailed guidance to authors, is available free of charge from the BBA Editorial Secretariat, P.O. Box 1345, 1000 BH Amsterdam, The Netherlands. It is also published as Biochim. Biophys. Acta 715 (1982) 1–23.

BBA

Biochimica et Biophysica Acta

Indexes 1989

BBA
Biochimica et Biophysica Acta

MANAGING EDITORS

P. Cohen (Dundee)
P.L. Dutton (Philadelphia, PA)
E.P. Kennedy (Boston, MA)
G.K. Radda (Oxford) (Chairman)
K. van Dam (Amsterdam)
L.L.M. van Deenen (Utrecht)
P.C. van der Vliet (Utrecht)

HONORARY MANAGING EDITOR

E.C. Slater (Southampton)

EDITORS

B. Andersson (Stockholm)
C. Anthony (Southampton)
H.R.V. Arnstein (London)
J. Barber (London)
M.T. Bayliss (London)
R.J. Beynon (Liverpool)
I. Bihler (Winnipeg)
I. Björkhem (Huddinge)
B. Borgström (Lund)
P. Borst (Amsterdam)
J. Bremer (Oslo)
Z.I. Cabantchik (Jerusalem)
R. Cammack (London)
I.D. Campbell (Oxford)
E. Carafoli (Zürich)
G. Cevc (München)
J.E. Cleaver (San Francisco, CA)
C.M. Cohen (Boston, MA)
R.A. Coleman (Durham, NC)
C. Crane-Robinson (Portsmouth)
E.A. Dawidowicz (Boston, MA)
B. de Kruijff (Utrecht)
J.G. Demaille (Montpellier)
J.J.H.H.M. de Pont (Nijmegen)
D. DerVartanian (Athens, GA)
B. Deuticke (Aachen)
W. Doerfler (Köln)
K.T. Douglas (Manchester)
C.P. Downes (Dundee)
S. Ebashi (Tokyo)
J. Fain (Memphis, TN)
S.J. Ferguson (Oxford)
J.T. Gallagher (Manchester)
F. Gibson (Canberra)
W.B. Gratzer (London)
F. Grosveld (London)
A.K. Hajra (Ann Arbor, MI)
M. Hamberg (Stockholm)
D.A. Harris (Oxford)
J.L. Harwood (Cardiff)
H. Hauser (Zürich)
E. Heinz (Dortmund)
E.J.M. Helmreich (Würzburg)
F. Hofmann (Homburg)
D. Holten (St. Louis, MO)
M.D. Houslay (Glasgow)
C.-h. Huang (Charlottesville, VA)
R.C. Hughes (London)
J.B. Jackson (Birmingham)
M. Jennings (Galveston, TX)
P. Jollès (Paris)
Y. Kagawa (Tochigi)
J. Kay (Cardiff)
Y. Kaziro (Tokyo)
R. Kinne (Dortmund)
C. Klee (Bethesda, MD)
A. Kleinzeller (Philadelphia, PA)
W. Lands (Chicago, IL)
P. Läuger (Constance)
A.G. Lee (Southampton)
I.G. Macara (Rochester, NY)
F. Maley (Albany, NY)
R. Malkin (Berkeley, CA)
D. Marsh (Göttingen)
A.N. Martonosi (Syracuse, NY)
V. Massey (Ann Arbor, MI)
R.J. Mayer (Nottingham)
D.J. Morré (West Lafayette, IN)
J.F. Morrison (Canberra)
L.E. Mortenson (Athens, GA)
G.L. Nelsestuen (St. Paul, MN)
Y. Nozawa (Gifu)
S. Numa (Kyoto)
C.N. Pace (College Station, TX)
R.C. Pace-Asciak (Toronto)
M.C. Phillips (Philadelphia, PA)
L.A. Pinna (Padua)
P.G.W. Plagemann (Minneapolis, MN)
R. Prince (Annandale, NJ)
P.J. Randle (Oxford)
A. Razin (Jerusalem)
J. Riordan (Boston, MA)
I.A. Rose (Philadelphia, PA)
A.M. Scanu (Chicago, IL)
G.L. Scherphof (Groningen)
C.W. Schmid (Davis, CA)
W.J. Schneider (Edmonton)
J. Seelig (Basel)
G.G. Shipley (Boston, MA)
D. Shugar (Warsaw)
H. Sies (Düsseldorf)
J.R. Silvius (Montreal)
M. Sinensky (Denver, CO)
F. Snyder (Oak Ridge, TN)
H.D. Soling (Göttingen)
M.J. Spiro (Boston, MA)
J.M. Tager (Amsterdam)
I. Tinoco (Berkeley, CA)
K.F. Tipton (Dublin)
I.P. Trayer (Birmingham)
I. Trowbridge (San Diego, CA)
C.L. Tsou (Beijing)
D.E. Vance (Edmonton)
H. van den Bosch (Utrecht)
J. Vanderkooi (Philadelphia, PA)
L.M.G. van Golde (Utrecht)
H.J. van Gorkom (Leiden)
T. Vänngård (Gothenburg)
M. Waite (Winston-Salem, NC)
A. Watts (Oxford)
C. Weissman (Zürich)
T.J. Wheeler (Louisville, KY)
R.J.P. Williams (Oxford)
J.R. Williamson (Philadelphia, PA)
L. Wojtczak (Warsaw)
C.A. Wraight (Urbana, IL)
C. Yocum (Ann Arbor, MI)
R.F.A. Zwaal (Maastricht)

ELSEVIER SCIENCE PUBLISHERS B.V., AMSTERDAM

BBA
Biochimica et Biophysica Acta

INTERNATIONAL JOURNAL OF BIOCHEMISTRY AND BIOPHYSICS

author and subject indexes 1989 volumes 973-1014

Managing Editors: P. Cohen, K. van Dam, L.L.M. van Deenen, P.L. Dutton, E.P. Kennedy, G.K. Radda (Chairman) and P.C. van der Vliet

Honorary Managing Editor: E.C. Slater

ELSEVIER SCIENCE PUBLISHERS B.V., AMSTERDAM

PUBLICATION SCHEDULE FOR 1989

BBA is published according to a volume-numbering scheme that embraces all sections of the journal. In addition, each regular section has its own sequential volume-numbering system, running parallel to the overall BBA scheme, as set out below. [a]
Full subscription: 42 volumes plus Cumulative Index 1988.

	BIO-ENERGETICS including Reviews on Bioenergetics 5 volumes	BIO-MEMBRANES 11 volumes [b]	GENERAL SUBJECTS 4 volumes	PROTEIN STRUCTURE AND MOLECULAR ENZYMOLOGY 6 volumes	LIPIDS AND LIPID METABOLISM 6 volumes	GENE STRUCTURE AND EXPRESSION 3 volumes	MOLECULAR CELL RESEARCH 5 volumes	
Jan.	973-1 = B90-1	978-1 = M165-1 978-2 = M165-2	990-1 = G134-1	994-1 = P51-1 994-2 = P51-2 994-3 = P51-3	1001-1 = L94-1 1001-2 = L94-2 1001-3 = L94-3	1007-1 = N23-1	1010-1 = C27-1 1010-2 = C27-2 1010-3 = C27-3	SPECIAL CELEBRATION VOLUME 1000 [c]
Feb.	973-2 = B90-2 973-3 = B90-3	979-1 = M166-1 979-2 = M166-2 979-3 = M166-3	990-2 = G134-2			1007-2 = N23-2		
March	974-1 = B91-1	980-1 = M167-1 980-2 = M167-2 980-3 = M167-3	990-3 = G134-3	995-1 = P52-1 995-2 = P52-2 995-3 = P52-3	1002-1 = L95-1 1002-2 = L95-2 1002-3 = L95-3	1007-3 = N23-3	1011-1 = C28-1 1011-2 = C28-2 1011-3 = C28-3	BBA REVIEW SECTIONS
April	974-2 = B91-2		991-1 = G135-1					
May	974-3 = B91-3	981-1 = M168-1 981-2 = M168-2	991-2 = G135-2	996-1 = P53-1 996-2 = P53-2 996-3 = P53-3	1003-1 = L96-1 1003-2 = L96-2 1003-3 = L96-3	1008-1 = N24-1	1012-1 = C29-1 1012-2 = C29-2 1012-3 = C29-3	BBA REVIEWS ON BIOMEMBRANES
June	975-1 = B92-1	982-1 = M169-1 982-2 = M169-2	991-3 = G135-3			1008-2 = N24-2		
July	975-2 = B92-2 975-3 = B92-3	983-1 = M170-1 983-2 = M170-2	992-1 = G136-1	997-1 = P54-1 997-2 = P54-2 997-3 = P54-3	1004-1 = L97-1 1004-2 = L97-2 1004-3 = L97-3	1008-3 = N24-3	1013-1 = C30-1 1013-2 = C30-2 1013-3 = C30-3	988-1 = MR18-1 988-2 = MR18-2 988-3 = MR18-3
Aug.	976-1 = B93-1	984-1 = M171-1 984-2 = M171-2 984-3 = M171-3	992-2 = G136-2					
Sept.	976-2 = B93-2 976-3 = B93-3	985-1 = M172-1 985-2 = M172-2 985-3 = M172-3	992-3 = G136-3	998-1 = P55-1 998-2 = P55-2 998-3 = P55-3	1005-1 = L98-1 1005-2 = L98-2 1005-3 = L98-3	1009-1 = N25-1		
Oct.			993-1 = G137-1					BBA REVIEWS ON CANCER
Nov.	977-1 = B94-1 977-2 = B94-2	986-1 = M173-1 986-2 = M173-2	993-2 = G137-2	999-1 = P56-1 999-2 = P56-2	1006-1 = L99-1 1006-2 = L99-2	1009-2 = N25-2	1014-1 = C31-1 1014-2 = C31-2	989-1 = CR16-1 989-2 = CR16-2
Dec.	977-3 = B94-3	987-1 = M174-1 987-2 = M174-2	993-3 = G137-3	999-3 = P56-3	1006-3 = L99-3	1009-3 = N25-3	1014-3 = C31-3	989-3 = CR16-3

[a] All claims and subscription orders must employ the overall numbering scheme.
[b] This includes BBA Reviews on Biomembranes, Vol. 988.
[c] Included for all full-set subscribers.

© 1990, Elsevier Science Publishers B.V. (Biomedical Division)

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the Publisher, Elsevier Science Publishers B.V. (Biomedical Division), P.O. Box 1527, 1000 BM Amsterdam, The Netherlands.
Printed in The Netherlands

This issue is printed on acid-free paper

CONTENTS

Introduction vii

Author Index 1

Subject Index 93

Review Sections 279

Volume 1000 283

Introduction

For the Subject Index, up to six key words (or short phrases) are selected for each article; these are printed together, and each is selected in turn to form an index entry. Important factors of each investigation are selected as key words; general terms such as enzyme, rat, spectroscopy, etc. will not be found as separate entries. However, such words, together with appropriate entries for source(s) of materials or for method(s) used, may be found in parentheses at the end of a group of key words. These words are sub-key words and are intended to provide useful supplementary information; they do not, however, constitute sufficiently precise indexing terms to be used as index entries.

Also in parentheses at the end of each group of key words will be found the name of the first author, the volume and the first page number of the article. The full published title and co-authors of an article can be found by consulting the relevant entry for the first author in the Author Index. To determine in which section an article has been published, the volume number indicated for an entry should be checked against the 1989 Publication Schedule, which can be found in the preliminaries and on the inside front cover of this Index.

Readers should note that American spelling is used throughout the Subject Index.

Authors of review articles are quoted in the Author Index. BBA reviews published in the special review sections (Biomembranes and Cancer) and in Volume 1000 are not included in the key-word system, but cumulative contents are to be found at the end of the Subject Index.

The Editors and Publishers welcome any comments on the usefulness of this Index, together with suggestions for improvements.

Author Index

Volumes 973–1014

1989

A

Aarsaether, N., see Berge, R.K. (1004) 345
Aarsland, A., see Berge, R.K. (1004) 345
Aartsma, T.J., see Deinum, G. (976) 63
Aasa, R., see Öblad, M. (975) 267
AB, G., see Bruinenberg, P.G. (1008) 157
Abbey, M. and Calvert, G.D.
Effects of blocking plasma lipid transfer protein activity in the rabbit (1003) 20
Abbondanza, A., see Bolognesi, A. (993) 287
Abbott, T., see Gabev, E. (979) 105
Abbruzzese, A., Park, M.H., Beninati, S. and Folk, J.E.
Inhibition of deoxyhypusine hydroxylase by polyamines and by a deoxyhypusine peptide (997) 248
Abdul-Razzak, K.K., Denton, M.L., Cox, D.J. and Reeck, G.R.
Isolation and characterization of folded fragments released by *Staphylococcal aureus* proteinase from the non-histone chromosomal protein HMG-1 (996) 125
Abe, A. and Sasaki, T.
Sulfhydryl groups in glycolipid transfer protein: formation of an intramolecular disulfide bond and oligomers by Cu^{2+}-catalyzed oxidation (985) 38
Abe, A. and Sasaki, T.
Formation of an intramolecular disulfide bond of glycolipid transfer protein (985) 45
Abei, M., Harada, S., Tanaka, N., McNeil, M. and Osuga, T.
Immunohistochemical localization of human liver glutathione *S*-transferase (GST) isozymes with special reference to polymorphic GST1 (995) 279
Abel, S., Krauss, G.-J. and Glund, K.
Ribonuclease in tomato vacuoles: high-performance liquid chromatographic analysis of ribonucleolytic activities and base specificity (998) 145
Abeywardena, M.Y., Fischer, S., Schweer, H. and Charnock, J.S.
In vivo formation of metabolites of prostaglandins I_2 and I_3 in the marmoset monkey (*Callithrix jacchus*) following dietary supplementation with tuna fish oil (1003) 161
Abidi, T.F., Faaland, C.A., Scala, D.D., Rhein, L.D. and Laskin, J.D.
Ethoxylated alcohol (Neodol-12) and other surfactants in the assay of protein kinase C (992) 362
Abouakil, N. and Lombardo, D.
Inhibition of human milk bile-salt-dependent lipase by boronic acids. Implication to the bile salts activator effect (1004) 215
Abouakil, N., Rogalska, E. and Lombardo, D.
Human milk bile-salt stimulated lipase: further investigations on the amino-acids residues involved in the catalytic site (1002) 225
Abraham, R.T., see Hooper, W.C. (1013) 47
Abramson, J.J., see Moutin, M.-J. (984) 289
Abrashkin, S., see Azoury, R. (995) 295
Abrashkin, S., see Lavie, E. (991) 62
Abresch, E.C., see Lubitz, W. (977) 227
Abumrad, N., see Ghishan, F.K. (979) 77
Abumrad, N.N., see Van Voorhis, K. (978) 51
Accorsi, A., see Fazi, A. (998) 286
Aceto, A., see Arduini, A. (999) 203
Acosta, M., Arnao, M.B., Del Río, J.A. and García-Cánovas, F.
Kinetic characterization of the inactivation process of two peroxidase isoenzymes in the oxidation of indolyl-3-acetic acid (996) 7
Adachi, T., see Kawashima, Y. (1005) 123
Adam, Z. and Malkin, R.
On the interaction between cytochrome *f* and plastocyanin (975) 158
Adamovich, T.B., Pikuleva, I.A., Chashchin, V.L. and Usanov, S.A.
Selective chemical modification of cytochrome *P*-450_{SCC} lysine residues. Identification of lysines involved in the interaction with adrenodoxin (996) 247
Adamovich, T.B., see Turko, I.V. (996) 37
Adams, M.L., Ostapiuk, I. and Grasso, J.A.
The effects of inhibition of heme synthesis on the intracellular localization of iron in rat reticulocytes (1012) 243
Adams, V., Bosch, W., Schlegel, J., Wallimann, T. and Brdiczka, D.
Further characterization of contact sites from mitochondria of different tissues: topology of peripheral kinases (981) 213
Adcock, M.D., see Doncaster, H.D. (973) 176
Addey, C.V.P., see Wilde, C.J. (992) 315
Ade, H., see Rothman, S.S. (991) 484
Adler, L., see Nilsson, A. (991) 296
Adrich, Z., see De Caro, A.M. (994) 281
Aeckerle, S. and Malchow, D.
Calcium regulates cAMP-induced potassium ion efflux in *Dictyostelium discoideum* (1012) 196
Afzelius, P., Demant, E.J.F., Hansen, G.H. and Jensen, P.B.
Covalent modification of serum transferrin with phospholipid and incorporation into liposomal membranes (979) 231
Agarwal, K.C., see Berry, S. (1012) 46
Agarwal, K.C., see Lineberger, B. (1012) 36
Agius, L., see Tosh, D. (992) 245
Agnani, G., see Benhamamouch, S. (1002) 45
Agrò, A.F., see Carelli, V. (991) 25
Ahlquist, J.A.O., Franklyn, J.A., Sheppard, M.C. and Ramsden, D.B.
Thyroid hormone response elements in pituitary genes (1008) 251
Ahnström, G.
Inhibition of DNA strand break rejoining in ultraviolet-irradiated human cells: comparison of aphidicolin and cytosine arabinoside (1007) 357
Aikawa, E., see Kawano, J.-i. (997) 199
Airas, R.K.
Branched-chain-amino-acid aminotransferase assay using radioisotopes (992) 397
Aird, S.D., Middaugh, C.R. and Kaiser, I.I.
Spectroscopic characterization of textilotoxin, a presynaptic neurotoxin from the venom of the Australian eastern brown snake (*Pseudonaja t. textilis*) (997) 219
Aird, S.D., Steadman, B.L., Middaugh, C.R. and Kaiser, I.I.
Comparative spectroscopic studies of four crotoxin homologs and their subunits (997) 211
Aisen, P., see Osterloh, K. (1011) 40
Aisen, P., see Sibille, J.-C. (1010) 204
Akama, K., Oka, S., Tobita, T. and Hayashi, H.
Changes in chromatin structure of boar late spermatids to mature spermatozoa by using modification with dansyl chloride (1008) 198
Akamatsu, Y., see Kitagawa, T. (980) 100
Akamatsu, Y., see Kitagawa, T. (987) 235
Akamatsu, Y., see Kuge, O. (986) 61
Akanuma, H., see Sakai, K. (985) 51
Aker, J., see Tasseron-de Jong, J. (1008) 62
Akera, T., see Hagane, K. (982) 279
Akerboom, T.P.M., see Kunst, M. (982) 15
Akerboom, T.P.M., see Kunst, M. (983) 123
Åkerlund, H.-E., see Henrysson, T. (977) 301
Åkerlund, H.-E., see Sundblad, L.-G. (973) 47
Åkerman, K.E.O., see Isomaa, B. (998) 131
Akeson, M.A. and Munns, D.N.
Lipid bilayer permeation by neutral aluminum citrate and by three α-hydroxy carboxylic acids (984) 200
Akeson, M.A., Munns, D.N. and Burau, R.G.
Adsorption of Al^{3+} to phosphatidylcholine vesicles (986) 33
Akhrem, A.A., Andreyuk, G.M., Kisel, M.A. and Kiselev, P.A.

Hemoglobin conversion to hemichrome under the influence of fatty acids (992) 191
Akiba, S., see Sato, T. (992) 168
Akimoto, S., see Sakikawa, T. (1007) 158
Akiyama, S.-i., see Yoshimura, A. (992) 307
Akizuki, S., see Setoguchi, M. (1008) 213
Akman, S.A., Forrest, G., Chu, F.-F. and Doroshow, J.H.
Resistance to hydrogen peroxide associated with altered catalase mRNA stability in MCF7 breast cancer cells (1009) 70
Al-Ahkras, G., Hampton, S.M., Wright, J. and Marks, V.
The extraction and purification of a peptide from rat insulinoma tissue (993) 275
Al, B.J.M., Tiffany, C.W., Gomes de Mesquita, D.S., Moser, H.W., Tager, J.M. and Schram, A.W.
Properties of acid ceramidase from human spleen (1004) 245
Alam, R., Yatsu, F.M., Tsui, L. and Alam, S.
Receptor-mediated uptake and 'retroendocytosis' of high-density lipoproteins by cholesterol-loaded human monocyte-derived macrophages: possible role in enhancing reverse cholesterol transport (1004) 292
Alam, S., see Alam, R. (1004) 292
Alberghina, L., see Vanoni, M. (1008) 168
Alberti, K.G.M.M., see Tosh, D. (992) 245
Alberts, A.S., see Barshop, B.A. (999) 19
Albitz, R., see Nilius, B. (1014) 259
Albor, A., see Malaisse, W.J. (1013) 133
Albracht, S.P.J., see Coremans, J.M.C.C. (997) 256
Albracht, S.P.J., see Van Belzen, R. (974) 311
Albright, E., see Mathur, S.N. (1001) 50
Alemany, M., see López-Soriano, F.J. (1010) 338
Alesse, E., see Cifone, M.G. (1011) 25
Alexandre, A., see Deana, R. (1014) 203
Alexson, S.E.H., Svensson, L.T. and Nedergaard, J.
NADH-sensitive propionyl-CoA hydrolase in brown-adipose-tissue mitochondria of the rat (1005) 13
Algar, E.M. and Holmes, R.S.
Purification and properties of mouse stomach aldehyde dehydrogenase. Evidence for a role in the oxidation of peroxidic and aromatic aldehydes (995) 168
Al-Hasani, S., see Arnold, W.M. (979) 142
Ali, H., Cunha-Melo, J.R. and Beaven, M.A.
Receptor-mediated release of inositol 1,4,5-trisphosphate and inositol 1,4-bisphosphate in rat basophilic leukemia RBL-2H3 cells permeabilized with streptolysin O (1010) 88
Ali, L., Wésslén, N. and Hellman, B.
Effects of depolarizing agents on the sodium content of rat pancreatic islets (1010) 283
Ali, N. and Salahuddin, A.
Isolation and characterization of soluble β-galactoside-binding lectins from mammalian liver (992) 30
Aliau, S., see Tabacik, C. (1011) 149
Alitalo, K., see Bianchi, N.O. (1007) 350
Alkan, H., see Son, K. (981) 288
Allan, D. and Quinn, P.
Membrane phospholipid asymmetry in Semliki Forest virus grown in BHK cells (987) 199
Allan, D., Hagelberg, C., Kallen, K.-J. and Haest, C.W.M.
Echinocytosis and microvesiculation of human erythrocytes induced by insertion of merocyanine 540 into the outer membrane leaflet (986) 115
Allemand, D., see Walter, P. (1012) 219
Allen, J.F., see Sanders, C.E. (976) 168
Allen, R.A., Erickson, R.W. and Jesaitis, A.J.
Identification of a human neutrophil protein of M_r 24000 that binds *N*-formyl peptides: co-sedimentation with specific granules (991) 123
Allen, R.A., see Cupo, J.F. (982) 31
Allen, T.M., Hansen, C. and Rutledge, J.
Liposomes with prolonged circulation times: factors affecting uptake by reticuloendothelial and other tissues (981) 27
Allison, W.S., see Bullough, D.A. (975) 377
Alm, R., see Lindmark, B. (997) 90
Al-Mahrouq, H.A., McAteer, J.A. and Kempson, S.A.
Cholera toxin action on rabbit renal brush-border membranes inhibits phosphate transport (981) 200
Aloia, R.C. and Raison, J.K.
Membrane function in mammalian hibernation (988) 123
Alonso, M.T., Sanchez, A. and García-Sancho, J.
Effects of sodium removal on calcium mobilization and dense granule secretion induced by thrombin in human platelets (981) 367
Alpers, D.H., see Komoda, T. (990) 165
Alpert, B., see Pin, S. (994) 47
Alpes, I., Scherer, S. and Böger, P.
The respiratory NADH dehydrogenase of the cyanobacterium *Anabaena variabilis*: purification and characterization (973) 41
Alter, S.C. and Schwartz, L.B.
Effect of histamine and divalent cations on the activity and stability of tryptase from human mast cells (991) 426
Altibelli, A., see Sautereau, A.M. (978) 276
Alvarez, J. and García-Sancho, J.
Inhibition of red cell Ca^{2+}-dependent K^+ channels by snake venoms (980) 134
Alvaro, D., Cantafora, A., Gandin, C., Masella, R., Santini, M.T. and Angelico, M.
Selective hepatic enrichment of polyunsaturated phosphatidylcholines after intravenous administration of dimethylethanolamine in the rat (1006) 116
Alvear, M., Jabalquinto, A.M. and Cardemil, E.
Inactivation of chicken liver mevalonate 5-diphosphate decarboxylase by sulfhydryl-directed reagents: evidence of a functional dithiol (994) 7
Amako, K., see Suenaga, M. (981) 143
Amano, S., see Hanazawa, S. (1012) 57
Ambudkar, I.S., see Maki, T. (1014) 73
Ames, B.N., see Blum, P.H. (1007) 196
Amesz, J., see Deinum, G. (976) 63
Amesz, J., see Smit, H.W.J. (973) 212
Ametani, A., see Kaminogawa, S. (998) 50
Amiconi, G., see Ascenzi, P. (998) 210
Amiconi, G., see Lundberg, P. (999) 12
Amler, E., see Baracca, A. (976) 77
Amoh, T., see Kozaki, Y. (1014) 120
Amr, S., Hamosh, P. and Hamosh, M.
Effect of Intralipid infusion on lecithin:cholesterol acyltransferase and lipoprotein lipase in young rats (1001) 145
Ancelin, M.L. and Vial, H.J.
Regulation of phosphatidylcholine biosynthesis in *Plasmodium*-infected erythrocytes (1001) 82
Andaluz, E., see Ridruejo, J.C. (993) 179
Andersen, J.P.
Monomer-oligomer equilibrium of sarcoplasmic reticulum Ca-ATPase and the role of subunit interaction in the Ca^{2+} pump mechanism (988) 47
Andersen, O.S., see Sawyer, D.B. (987) 129
Anderson, A., see Srivastava, G. (1007) 192
Anderson, B.M., see Beier, K.H. (997) 236
Anderson, B.M., see Yoon, H. (994) 75
Anderson, C.D., see Beier, K.H. (997) 236
Anderson, C.D., see Yoon, H. (994) 75
Anderson, J.M., see Chow, W.S. (973) 105
Anderson, Jr., W.R., see Birdsall, W.J. (1007) 176
Anderson, J.V., see Wolfe, S.A. (1007) 140
Andersson, B., see Spangfort, M. (977) 163

Andersson, L.A., Loehr, T.M., Cotton, T.M., Simpson, D.J. and Smith, K.M.
Spectroscopic analysis of chlorophyll model complexes: methyl ester ClFe(III)pheophorbides (974) 163
Andley, U.P. and Clark, B.A.
Photoreactions of human lens monomeric crystallins (997) 284
Ando, O., see Kaminogawa, S. (998) 50
Andreasen, P.A., see Jensen, P.H. (986) 135
Andréasson, L.-E.
Is nitrogen liganded to manganese in the photosynthetic oxygen-evolving system? EPR studies after isotopic replacement with ^{15}N (973) 465
Andreoni, A., Colasanti, A., Malatesta, V., Mastrocinque, M., Roberti, G. and Von Kisslinger, A.
Cell photosensitization by 5-iminodaunomycin activated with red light (1014) 8
Andreoni, A., Land, E.J., Malatesta, V., McLean, A.J. and Truscott, T.G.
Triplet state characteristics and singlet oxygen generation properties of anthracyclines (990) 190
Andrew, P.W., see Mitchell, T.J. (1007) 67
Andrews, G.C., see Daumy, G.O. (998) 32
Andrews, H.J., Bunning, R.A.D., Dinarello, C.A. and Russell, R.G.G.
Modulation of human chondrocyte metabolism by recombinant human interferon gamma: in-vitro effects on basal and IL-1-stimulated proteinase production, cartilage degradation and DNA synthesis (1012) 128
Andreyuk, G.M., see Akhrem, A.A. (992) 191
Anfinsen, C.B., Harrington, W.F., Hvidt, A., Linderstrøm-Lang, K., Ottesen, M. and Schellman, J.
on 'Studies on the structural basis of ribonuclease activity' (1000) 197
Anfinsen, C.B.
Commentary by (1000) 197
Angel, A., see Fong, B.S. (1004) 53
Angelico, M., see Alvaro, D. (1006) 116
Angelin, B., see Berglund, L. (1002) 382
Angelucci, J., see Borel, I.M. (990) 162
Anghileri, L.J., Maincent, P. and Robert, J.
Enhancement of colloid uptake by tumor cell surface electrical charge modification (982) 307
Ångström, J., see Wydrzynski, T. (973) 23
Aniello, F., Branno, M., Geraci, G. and Tosi, L.
Histone-lysine methyltransferase activity from sea-urchin embryo nuclei. Changes in substrate specificity upon purification (1008) 31
Antoine, E., see Redini, F. (991) 359
Anton, M., see Wiesner, R. (986) 11
Antoni, F., see Spolarics, Z. (1012) 231
Antony, A.C. and Verma, R.S.
Hydrophobic erythrocyte folate binding proteins are converted to hydrophilic forms by trypsin in vitro (979) 62
Antunes-Madeira, M.C. and Madeira, V.M.C.
Membrane fluidity as affected by the insecticide lindane (982) 161
Aoki, K., see Onji, T. (999) 248
Aoyagi, H., see Lee, S. (984) 174
Aoyagi, H., see Suenaga, M. (981) 143
Aoyama, Y., Yoshida, Y., Sonoda, Y. and Sato, Y.
Role of the 8-double bond of lanosterol in the enzyme–substrate interaction of cytochrome $P\text{-}450_{14DM}$ (Lanosterol 14α-demethylase) (1001) 196
Aoyama, Y., Yoshida, Y., Sonoda, Y. and Sato, Y.
The 3-hydroxy group of lanosterol is essential for orienting the substrate in the substrate site of cytochrome $P\text{-}450_{14DM}$ (Lanosterol 14α-demethylase) (1006) 209
Apap-Bologna, A., Webster, A., Raitt, F. and Kemp, G.
The influence of calcium ions on fibrinogen conformation (995) 70
Apell, H.-J., see Clarke, R.J. (981) 326
Apell, H.-J., see Fringeli, U.P. (984) 301
Apovo, M., Gascard, P., Rhoda, M.D., Beuzard, Y. and Giraud, F.
Alteration in protein kinase C activity and subcellular distribution in sickle erythrocytes (984) 26
Appleby, C.A., see Atanasov, B.P. (998) 80
Aprile, A., see Ferrari, N. (1007) 30
Aragón, C., see Lopez-Corcuera, B. (983) 247
Arai, N., see Ramanathan, L. (1007) 283
Arai, Y., Mukai, T. and Hori, K.
Transcription of rat aldolase B gene: Minor RNAs are transcribed by RNA polymerase III (1007) 91
Arai, Y., see Komoda, T. (990) 165
Arakawa, T., see Owers Narhi, L. (990) 144
Arakawa, T., see Ward, L.D. (1012) 317
Arakelyan, V.B., see Matinyan, N.S. (984) 313
Araki, N., see Takata, K. (986) 18
Araki, T., Yoshioka, Y. and Schmid, K.
The position of the disulfide bonds in human plasma α_2HS-glycoprotein and the repeating double disulfide bonds in the domain structure (994) 195
Aranda, F.J., Coutinho, A., Berberan-Santos, M.N., Prieto, M.J.E. and Gómez-Fernández, J.C.
Fluorescence study of the location and dynamics of α-tocopherol in phospholipid vesicles (985) 26
Araujo, P.S., see Arêas, E.P.G. (997) 15
Ardaillou, N., Bellon, G., Nivez, M.-P., Rakotoarison, S. and Ardaillou, R.
Quantification of collagen synthesis by cultured human glomerular cells (991) 445
Ardaillou, R., see Ardaillou, N. (991) 445
Ardaillou, R., see Dussaule, J.-C. (1005) 34
Arduini, A., Storto, S., Belfiglio, M., Scurti, R., Mancinelli, G. and Federici, G.
Mechanism of spectrin degradation induced by phenylhydrazine in intact human erythrocytes (979) 1
Arduini, A., Strambini, G., Di Ilio, C., Aceto, A., Storto, S. and Federici, G.
Tryptophan environments in glutathione transferase of human placenta from temperature-dependent phosphorescence studies (999) 203
Arduini, A., see Ricci, G. (990) 211
Arêas, E.P.G., Laure, C.J., Gabilan, N., Araujo, P.S. and Kawano, Y.
Raman and infrared studies on the conformation of porcine pancreatic and *Crotalus durissus terrificus* phospholipases A_2 (997) 15
Argiolas, L., see Bravo, E. (1003) 315
Argoff, C.E., see Mackie, E.J.B. (1006) 219
Ariga, H., see Urashima, T. (992) 375
Aring, J., Schlepper-Schaefer, J., Burkart, V. and Kolb, H.
Nonenzymatically glycated serum albumin: interaction with galactose-specific liver lectins (1010) 140
Arita, H., see Hanasaki, K. (1013) 28
Arlow, F.L., see Majumdar, A.P.N. (992) 35
Arnao, M.B., see Acosta, M. (996) 7
Arnberg, A.C., see Bruinenberg, P.G. (1008) 157
Arner, E.C. and Kirkland, J.J.
Effect of interleukin-1 on the size distribution of cartilage proteoglycans as determined by sedimentation field flow fractionation (993) 100
Arnold, W.M., Schmutzler, R.K., Al-Hasani, S., Krebs, D. and Zimmermann, U.
Differences in membrane properties between unfertilised and fertilised single rabbit oocytes demonstrated by electro-rotation. Comparison with cells from early embryos (979) 142
Arreguín, B., see Rodríguez-Romero, A. (998) 21
Artigues, A., Villar, M.T., Fernandez, A.M., Ferragut, J.A. and Gonzalez-Ros, J.M.

Cholesterol stabilizes the structure of the nicotinic acetylcholine receptor reconstituted in lipid vesicles (985) 325
Arumugam, S., see Riddell, F.G. (984) 6
Arvidson, G., Ronquist, G., Wikander, G. and Öjteg, A.-C.
Human prostasome membranes exhibit very high cholesterol/phospholipid ratios yielding high molecular ordering (984) 167
Arvinte, T., Cudd, A., Schulz, B. and Nicolau, C.
Low-pH association of proteins with the membranes of intact red blood cells. II. Studies of the mechanism (981) 61
Arvinte, T., Schulz, B., Cudd, A. and Nicolau, C.
Low-pH association of proteins with the membranes of intact red blood cells. I. Exogenous glycophorin and the CD4 molecule (981) 51
Ary, M.B., Richardson, M. and Shewry, P.R.
Purification and characterization of an insect α-amylase inhibitor/endochitinase from seeds of Job's Tears (*Coix lachryma-jobi*) (999) 260
Asami, K., Takahashi, Y. and Takashima, S.
Dielectric properties of mouse lymphocytes and erythrocytes (1010) 49
Asbóth, G., Gimes, G., Hertelendy, F. and Tóth, M.
The relation between thromboxane and prostaglandin synthesis in human decidua tissue: a comparison of eicosanoid synthesis in minced tissue with that in a cell-free preparation (1002) 101
Ascenzi, P., Menegatti, E., Guarneri, M. and Amiconi, G.
Trypsin-like serine proteinase action: determination of the catalytic parameters K_s, k_{+2} and k_{+3} under conditions where the substrate exceeds the enzyme concentration (998) 210
Ashendel, C.L., see Hooper, W.C. (1013) 47
Ashford, A.J., see Clark, S.J. (1010) 377
Åslund, N., see Blombäck, B. (997) 96
Asryants, R.A., Kuzminskaya, E.V., Tishkov, V.I., Douzhenkova, I.V. and Nagradova, N.K.
An examination of the role of arginine residues in the functioning of D-glyceraldehyde-3-phosphate dehydrogenase (997) 159
Asselot-Chapel, C., Kern, P. and Labat-Robert, J.
Biosyntheses of interstitial collagens and fibronectin by porcine aorta smooth muscle cells. Modulation by low-molecular-weight heparin fragments (993) 240
Asso, M., see Dolla, A. (975) 395
Astbury, W.T., Perry, S.V., Reed, R. and Spark, L.C.
on 'An electron microscope and X-ray study of actin' (1000) 159
Åstedt, B., see Jensen, P.H. (986) 135
Atanasov, B., see Maglova, L. (975) 271
Atanasov, B.P., Dimitrova, E.A., Kudryavtseva, N.N., Zhiznevskaya, G.Y. and Appleby, C.A.
The proton dependence of nicotinate binding to soybean, kidney bean and lupin ferric leghemoglobins (998) 80
Atanasov, B.P., see Spassov, V.Z. (999) 1
Atkins, A.R., see Cornell, B.A. (985) 229
Atkinson, S.J., see Thomson, B.M. (1014) 125
Atkinson, T., see Spencer, P. (994) 270
Attias de Murciano, A., see Ramos, H. (982) 303
Attwood, D., see Rothman, S.S. (991) 484
Au, D.M.Y., Kang, A.S. and Murphy, D.J.
Low-resolution epitope characterisation in a family of seed apolipoproteins using polyclonal antibodies (1005) 97
Au, K.S., Lee, M.F. and Siu, Y.L.
Ca^{2+}-mediated activation of human erythrocyte membrane Ca^{2+}-ATPase (978) 197
Aubry, H., see Froissart, P. (1002) 376
Aubry, H., see Proulx, P. (1003) 217
Audenaert, R., Heremans, L., Heremans, K. and Engelborghs, Y.
Secondary structure analysis of tubulin and microtubules with Raman spectroscopy (996) 110
Audhya, T., Hollander, C.S., Schlesinger, D.H. and Hutchinson, B.
Structural characterization and localization of corticotropin-releasing factor in testis (995) 10
Audubert, F., Breton, M., Colard, O. and Bereziat, G.
Differential methylation patterns in molecular species of phosphatidylethanolamine derivatives in rat liver membranes (1002) 62
Auger, M., Smith, I.C.P. and Jarrell, H.C.
Interactions of the local anesthetic tetracaine with glyceroglycolipid bilayers: a ^{2}H-NMR study (981) 351
Augusteyn, R.C., Koretz, J.F. and Schurtenberger, P.
The effect of phosphorylation on the structure of α-crystallin (999) 293
Augusteyn, R.C., see Thomson, J.A. (994) 246
Aumüller, G., see Enderle-Schmitt, U. (987) 21
Austin, A.J., see Cottingham, I.R. (995) 273
Avakian, T.M., see Matinyan, N.S. (984) 313
Avery, R.B., see Roth, M.R. (986) 217
Avramova, Z., Mikhailov, I. and Tsanev, R.
An evolutionarily conserved protein fraction stably linked to DNA (1007) 109
Avron, M., Krogmann, D.W. and Jagendorf, A.T.
on 'The relation of photosynthetic phosphorylation to the Hill reaction' (1000) 381
Avron, M.
Reflections on the early studies of the mechanism of photophosphorylation in isolated chloroplasts: a commentary by (1000) 381
Avron, M., see Katz, A. (983) 9
Avvakumov, G.V., Krupenko, S.A. and Strel'chyonok, O.A.
Study of the transcortin binding to human endometrium plasma membrane (984) 143
Aw, T.Y., see Lincoln, B.C. (992) 49
Awai, M., see Kawabata, T. (1004) 89
Awai, M., see Ogino, T. (1006) 131
Awayda, M.S., see Kidder III, G.W. (973) 59
Ayaki, H., see Hirabayashi, J. (1008) 85
Azhar, S. and Reaven, E.
Differences in uptake of high-density lipoproteins by rat adrenals using in vivo vs. in situ perfusion techniques (1004) 61
Azoury, R., Bitton, M., Abrashkin, S. and Lavie, E.
Structural changes in fibrin clot associated with the proteolytic activity induced by tissue type plasminogen activator. An NMR study (995) 295
Azoury, R., see Lavie, E. (991) 62

B

Baas, P.D., see Bovenberg, R.A.L. (1008) 223
Baatz, J., see Rice, W.R. (1006) 237
Babcock, G.T., see Ghanotakis, D.F. (974) 44
Babizhayev, M.A.
Antioxidant activity of L-carnosine, a natural histidine-containing dipeptide in crystalline lens (1004) 363
Babizhayev, M.A. and Deyev, A.I.
Lens opacity induced by lipid peroxidation products as a model of cataract associated with retinal disease (1004) 124
Babkina, G.T., see Graifer, D.M. (1008) 146
Bach, D. and Wachtel, E.
Thermotropic properties of mixtures of negatively charged phospholipids with cholesterol in the presence and absence of Li^+ or Ca^{2+} ions (979) 11
Bacher, A., see Kerler, F. (990) 15

Bacic, G., see Ma, L.D. (978) 283
Bacso, Z., see Szabo Jr., G. (979) 365
Bader, K.P.
Alkylbenzyldimethylammonium chloride, a stabilizer of the S-state system in the filamentous cyanobacterium *Oscillatoria chalybea* (975) 399
Bader, K.P. and Schmid, G.H.
Photosynthetic and respiratory oxygen gas exchange measured by mass spectrometry in the filamentous cyanobacterium *Oscillatoria chalybea* in dependence on the nitrogen source in the growth medium (974) 303
Bader, M. and Sarre, T.F.
Characterization of an inhibitor of protein synthesis initiation from mouse erythroleukemia cells (1009) 61
Baenziger, N.L., see Holtzman, M.J. (1003) 204
Baese, H.-J. and Havsteen, B.H.
4-Alkylidene oxazolones as substrates and inhibitors for sensitive assays of the normality of active sites and the catalytic properties of hydrolases (990) 113
Bagert, U. and Röhm, K.-H.
On the role of histidine and tyrosine residues in *E. coli* asparaginase. Chemical modification and ^{1}H-nuclear magnetic resonance studies (999) 36
Baggen, M.G.A., see Jansen, H. (1001) 44
Bai, R.-l., Duanmu, C. and Hamel, E.
Mechanism of action of the antimitotic drug 2,4-dichlorobenzyl thiocyanate: alkylation of sulfhydryl group(s) of β-tubulin (994) 12
Bailey, J.E., see Przybycien, T.M. (995) 231
Bailin, G. and Huang, J.R.
Modification of the $(Ca^{2+} + Mg^{2+})$-ATPase protein of sarcoplasmic reticulum with 7-chloro-4-nitrobenzo-2-oxa-1,3-diazole (995) 122
Bajus, A., see Biliński, T. (1001) 102
Bakás, L.S. and Disalvo, E.A.
Effect of the asymmetric Ca^{2+} distribution on the bilayer properties of phosphatidylcholine-sonicated vesicles (979) 352
Baker, G.M. and Chen, C.-H.
The effects of ethanol on the structural stability of acetylcholine receptor and the activity of various molecular forms of acetylcholinesterase (992) 333
Baker, N.R., see Genty, B. (990) 87
Bakhle, Y.S., see Yeats, D.A. (1003) 189
Bakker-Grunwald, T., see Keller, F. (982) 89
Bakó, É., Dombrádi, V., Erdődi, F., Zumo, L., Kertai, P. and Gergely, P.
Purification and partial characterization of protein phosphatases from rat thymus (1013) 300
Balasubramaniam, A., Renugopalakrishnan, V., Rigel, D.F., Nussbaum, M.S., Rapaka, R.S., Dobbs, J.C., Carreira, L.A. and Fischer, J.E.
Synthesis and biological properties of 4-norleucine-neuropeptide Y; secondary structure of neuropeptide Y (997) 176
Balasubramanian, K.A., Nalini, S., Cheeseman, K.H. and Slater, T.F.
Nonesterified fatty acids inhibit iron-dependent lipid peroxidation (1003) 232
Balázs, A.
The effect of the side-chain on the force field of the polypeptide backbone (998) 215
Balázs, M., see Mechler, F. (1012) 227
Baldeschwieler, J.D., see Roerdink, F.H. (980) 234
Baldini, G., see Miccio, M. (981) 115
Balduini, C., see Sinigaglia, F. (984) 225
Bali, J.-P., see Magous, R. (1010) 357
Balk, P.A., see Rutgers, M. (977) 142
Ball, Jr., W.J., see Friedman, M.L. (995) 42
Ballou, D.P., see Entsch, B. (999) 313
Balsa, M.D., Gómez, N. and Unzeta, M.
Characterization of monoamine oxidase activity present in human granulocytes and lymphocytes (992) 140
Bando, N., see Tsuji, H. (991) 380
Banerjee, D., see Dixon, J.L. (1009) 47
Banerjee, R.K.
EDTA inhibits peroxidase-catalyzed iodide oxidation through interaction at the iodide binding site (992) 393
Banfić, H.
Extracellular Ca^{2+} influences 1,2-diacylglycerol and inositol monophosphate formation in renal cortical slices stimulated with plasma obtained from uninephrectomized rats (1002) 273
Banfić, H., see Crljen, V. (1012) 24
Banijamali, A., see Makriyannis, A. (986) 141
Bank, P.A., Cullum, M.E., Jensen, R.K. and Zile, M.H.
Effect of hexachlorobiphenyl on vitamin A homeostasis in the rat (990) 306
Bank, P.A., Salyers, K.L. and Zile, M.H.
Effect of tetrachlorodibenzo-*p*-dioxin (TCDD) on the glucuronidation of retinoic acid in the rat (993) 1
Bannai, S., see Sato, H. (983) 259
Bar, L.K., Chong, P.L.-G., Barenholz, Y. and Thompson, T.E.
Spontaneous transfer between phospholipid bilayers of dehydroergosterol, a fluorescent cholesterol analog (983) 109
Baracca, A., Amler, E., Solaini, G., Parenti Castelli, G., Lenaz, G. and Houstek, J.
Temperature-induced states of isolated F_1-ATPase affect catalysis, enzyme conformation and high-affinity nucleotide binding sites (976) 77
Barak, Y., see Lazard, D. (1013) 68
Bárány, K., see Barron, J.T. (1010) 278
Bárány, K., see Erdődi, F. (1011) 67
Bárány, M., see Barron, J.T. (1010) 278
Bárány, M., see Erdődi, F. (1011) 67
Baratti, J., see Rangheard, M.-S. (1004) 20
Barbato, G., Calabria, R., Cartení-Farina, M., D'Auria, G., De Rosa, M., Sartorio, R., Wurzburger, S. and Zappia, V.
A physico-chemical approach to the study of the binding interaction between *S*-adenosyl-L-methionine and polyanions: binding constants and nature of the interaction with sodium poly(styrene sulfonate) (991) 324
Barber, J., see Gounaris, K. (973) 296
Barber, J., see Miyazaki, A. (975) 142
Barber, K.R., see Grant, C.W.M. (984) 11
Barber, K.R., see Mehlhorn, I.E. (986) 281
Barberis, A., see Superti-Furga, G. (1007) 237
Barbieri, L., see Bolognesi, A. (993) 287
Barcaglioni, P., see Baritussio, A. (1006) 19
Barcellona, M.L. and Gratton, E.
Fluorescence lifetime distributions of DNA–4′,6-diamidino-2-phenylindole complex (993) 174
Barenholz, Y., see Bar, L.K. (983) 109
Barenholz, Y., see Ben-Yashar, V. (985) 271
Barenholz, Y., see Druckmann, S. (980) 381
Baribeau, J., see Pande, C. (973) 257
Baritussio, A., Benevento, M., Pettenazzo, A., Bruni, R., Santucci, A., Dalzoppo, D., Barcaglioni, P. and Crepaldi, G.
The life cycle of a low-molecular-weight protein of surfactant (SP-C) in 3-day-old rabbits (1006) 19
Barker, E.D., see Kellett, G.L. (979) 311
Barker, E.D., see Kellett, G.L. (992) 128
Barker, H.M., see Cohen, P.T.W. (1008) 125
Barker, S.A., see Bassham, J.A. (1000) 403
Bar-On, H., see Levy, E. (1005) 20
Barra, D., see Petruzzelli, R. (995) 255
Barray, M., see Pochon, F. (996) 132

Barrett, J.
A simple matrix method for determining flux control coefficients in complex pathways (992) 369
Barrett, J., see Precious, W.Y. (992) 215
Barrett, P., see Cummings, A. (1014) 319
Barritt, G.J., see Hughes, B.P. (1013) 197
Barron, J.T., Bárány, K., Bárány, M. and Kopp, S.J.
Effects of ATP reduction on the pattern of force development and myosin light chain phosphorylation in intact arterial smooth muscle (1010) 278
Barron, J.T. and Kopp, S.J.
Fatty acid alters glycogen metabolism in contracting vascular smooth muscle (1012) 69
Barron, J.T., Kopp, S.J., Tow, J.P. and Messer, J.V.
Effects of altering carbohydrate metabolism on energy status and contractile function of vascular smooth muscle (976) 42
Barrow, S.E., Ward, P.S., Sleightholm, M.A., Ritter, J.M. and Dollery, C.T.
Cigarette smoking: profiles of thromboxane- and prostacyclin-derived products in human urine (993) 121
Barrow, S.E., see Pettitt, T.R. (1003) 1
Barrowman, J.A., see Chernenko, G.A. (1004) 95
Barrowman, J.A., see Nutting, D. (1004) 357
Barry, J.A., see Ramaswamy, K. (981) 193
Barry, J.A., see Wilson, D. (986) 123
Barsacchi, D., see Del Corso, A. (993) 116
Barsanti, L., see Gualtieri, P. (993) 293
Barshop, B.A., Alberts, A.S. and Gruber, H.E.
Kinetic studies of mutant human adenylosuccinase (999) 19
Bar-Tana, J., see Rosen, G. (994) 264
Bartel, D., Hans, H. and Passow, H.
Identification by site-directed mutagenesis of Lys-558 as the covalent attachment site of H_2DIDS in the mouse erythroid band 3 protein (985) 355
Barter, P.J., see Clay, M.A. (1002) 173
Barter, P.J., see Meyer, B.J. (1004) 73
Barth, A., see Demuth, H.-U. (996) 19
Bartlett, K., see Veitch, K. (1006) 335
Bartnicki-García, S., see Martínez, J.P. (990) 45
Bartnik, E. and Doerfler, W.
Chromatin structure and levels of expression and DNA methylation in the E3 region of chromosomally integrated adenovirus type 12 DNA (1007) 228
Bârzu, O., see Wong, P.T.T. (996) 260
Bashford, C.L., Rodrigues, L. and Pasternak, C.A.
Protection of cells against membrane damage by haemolytic agents: divalent cations and protons act at the extracellular side of the plasma membrane (983) 56
Bassham, J.A., Barker, S.A., Calvin, M. and Quarck, V.C.
on 'Intermediates in the photosynthetic cycle' (1000) 403
Basso, V., see Miccio, M. (981) 115
Bastagli, L., see Ventura, C. (987) 69
Basu, J., see Kundu, M. (985) 97
Batenburg, J.J. and Whitsett, J.A.
Levels of mRNAs coding for lipogenic enzymes in rat lung upon fasting and refeeding and during perinatal development (1006) 329
Batenburg, J.J., see Den Breejen, J.N. (1002) 277
Batenburg, J.J., see Heesbeen, E.C. (1002) 388
Bates, G.W., see Xian-Xuan, C. (992) 160
Batt, R. and Wallace, W.
Characteristics of the active site and substrate specificity of a maize root endopeptidase (990) 109
Battini, R., see Dixon, J.L. (1009) 47
Baud, L., see Dussaule, J.-C. (1005) 34
Baum, B.J., see Maki, T. (1014) 73
Baum, C., see Brasitus, T.A. (979) 177
Baverel, G., see Vincent, N. (1014) 184
Bawden, M.J., see Srivastava, G. (1007) 192
Bayerl, T.M., Werner, G.-D. and Sackmann, E.
Solubilization of DMPC and DPPC vesicles by detergents below their critical micellization concentration: high-sensitivity differential scanning calorimetry, Fourier transform infrared spectroscopy and freeze-fracture electron microscopy reveal two interaction sites of detergents in vesicles (984) 214
Bayliss, M.T., see Urban, J.P.G. (992) 59
Bayne, H., see Lepock, J.R. (980) 191
Béa, M.-L., see Dussaule, J.-C. (1005) 34
Beabealashvili, R.S., see Chinchaladze, D.Z. (1008) 113
Beaubatie, L., see Laplaud, P.M. (1005) 143
Beaufay, H., see De Duve, C. (1000) 317
Beaugé, L., see DiPolo, R. (978) 328
Beauregard, G., see Maret, A. (996) 254
Beaven, M.A., see Ali, H. (1010) 88
Beavis, A.D., see Garlid, K.D. (976) 109
Béchet, J.-J. and Houadjeto, M.
Prediction of the secondary structure of myosin light chains from comparison of homologous sequences. Implications for the interaction between myosin heavy and light chains (996) 199
Bechtel, B., see Thurin, J. (1002) 267
Beckett, G.J., see Strange, R.C. (993) 186
Beckmann, J., see Mehlich, A. (996) 23
Beerman, T.A., see Woynarowski, J.M. (1007) 116
Begent, R.H.J., see Chester, K.A. (1009) 297
Beguin, S., see Hemker, H.C. (992) 409
Behere, D.V., see Modi, S. (996) 214
Behr, P., see Kupferberg, A. (1013) 231
Beidler, D.R., Candia, A.F., Chernin, M.I. and Novak, J.F.
Resistance to pyrazofurin and 6-azauridine in normal MC3T3-E1 murine osteoblasts (1014) 101
Beier, K.H., Anderson, C.D. and Anderson, B.M.
Nonpolar interactions in the modification of an essential sulfhydryl of sorbitol dehydrogenase by *N*-alkylmaleimides (997) 236
Beigel, M., see Keren-Zur, M. (983) 253
Beintema, J.J., see Neuteboom, B. (998) 126
Beitinger, H., Vogel, V., Möbius, D. and Rahmann, H.
Surface potentials and electric dipole moments of ganglioside and phospholipid monolayers: contribution of the polar headgroup at the water/lipid interface (984) 293
Belaïche, D., see Chartier, F. (1008) 309
Belfiglio, M., see Arduini, A. (979) 1
Belfrage, P., see Holm, C. (1006) 193
Bell, J., see Hiley, C. (990) 321
Bell, J., see Strange, R.C. (993) 186
Bellon, B., see La Fournière, L. (998) 158
Bellon, G., see Ardaillou, N. (991) 445
Bellotti, V., see Ferri, G. (995) 103
Beltramini, M., see Salvato, B. (998) 14
Benassayag, C., see Vallette, G. (997) 302
Benbow, R.M., see Kaiserman, H.B. (1008) 23
Bendall, D.S., see Rolfe, S.A. (973) 220
Bendianishvili, M.V., see Shatilov, V.R. (994) 222
Benevento, M., see Baritussio, A. (1006) 19
Benham, D.F., see Verdery, R.B. (1006) 287
Benhamamouch, S., Kuznierz, J.-P., Agnani, G., Marzin, D., Lecerf, J.-M., Fruchart, J.-C. and Clavey, V.
Determination of the LDL receptor binding capacity of human lymphocytes by immunocytofluorimetric assay (1002) 45
Benigni, A., see Chiabrando, C. (1006) 167
Beninati, S., see Abbruzzese, A. (997) 248
Benito, M., see Roncero, C. (1012) 320
Benjannet, S., see Paquin, J. (999) 103
Benkouka, F., Péranzi, G., Robert, J.C., Lewin, M.J.M. and Soumarmon, A.

A monoclonal antibody which inhibits H^+/K^+-ATPase activity but not chloride conductance (987) 205
Benkouka, F., see Hervatin, F. (985) 320
Ben-Naim, M., see Chajek-Shaul, T. (1014) 178
Ben-Naim, M., see Stein, O. (1003) 175
Benne, R.
RNA-editing in trypanosome mitochondria (1007) 131
Bennett, V.
The spectrin-actin junction of erythrocyte membrane skeletons (988) 107
Bensadoun, A., see Cisar, L.A. (1004) 196
Bensadoun, A., see Cooper, D.A. (1008) 92
Benson, A.A. and Maruo, B.
A 'nova' in phosphate metabolism, GPG, and discovery of phosphatidylglycerol: a commentary by (1000) 447
Benson, A.A. and Maruo, B.
on 'Plant phospholipids. I. Identification of the phosphatidyl glycerols' (1000) 447
Bentrup, F.-W., see Gogarten, J.P. (978) 43
Benveniste, J., see Leyravaud, S. (1005) 192
Ben-Yashar, V. and Barenholz, Y.
The interaction of cholesterol and cholest-4-en-3-one with dipalmitoylphosphatidylcholine. Comparison based on the use of three fluorophores (985) 271
Benz, R., Schmid, A., Van der Ley, P. and Tommassen, J.
Molecular basis of porin selectivity: membrane experiments with OmpC-PhoE and OmpF-PhoE hybrid proteins of *Escherichia coli* K-12 (981) 8
Benz, R., see De Pinto, V. (987) 1
Benz, R., see Ludwig, O. (978) 319
Beppu, M., Ochiai, H. and Kikugawa, K.
Macrophage recognition of periodate-treated erythrocytes: Involvement of disulfide formation of the erythrocyte membrane proteins (979) 35
Berberan-Santos, M.N., see Aranda, F.J. (985) 26
Berchtold, M.W.
Structure and expression of genes encoding the three-domain Ca^{2+}-binding proteins parvalbumin and oncomodulin (1009) 201
Berden, J.A., see Schoppink, P.J. (974) 192
Berenson, G.S., see Srinivasan, S.R. (1006) 159
Bereziat, G., see Audubert, F. (1002) 62
Bereziat, G., see Pepin, D. (1006) 52
Berg, I., Guse, A.H. and Gercken, G.
Carbamoylcholine-induced accumulation of inositol mono-, bis-, tris- and tetrakisphosphates in isolated cardiac myocytes from adult rats (1010) 100
Berg, O.G., see Jain, M.K. (1002) 127
Berge, R.K., Aarsland, A., Kryvi, H., Bremer, J. and Aarsaether, N.
Alkylthioacetic acid (3-thia fatty acids) – a new group of non-β-oxidizable, peroxisome-inducing fatty acid analogues. I. A study on the structural requirements for proliferation of peroxisomes and mitochondria in rat liver (1004) 345
Bergenhem, N. and Carlsson, U.
The role of the metal ion in the refolding of denatured bovine Co(II)-carbonic anhydrase II (998) 277
Berger, J.W., see Vanderkooi, J.M. (976) 1
Berghout, A., Raida, M., Legrum, B. and Passow, H.
The effects of dansylation on the pH dependence of SO_4^{2-} and Cl^- equilibrium exchange and on the H^+/SO_4^{2-} cotransport across the red blood cell membrane (986) 75
Berglund, L., Björkhem, I., Angelin, B. and Einarsson, K.
Activation of rat liver cytosolic phosphatidic acid phosphatase by nucleoside diphosphates (1002) 382
Bergseth, S., see Skrede, S. (1005) 296
Bergstrand, A., see Nässberger, L. (984) 365
Berk, A.J.
Regulation of eukaryotic transcription factors by post-translational modification (1009) 103
Berkow, R.L., Dodson, R.W. and Kraft, A.S.
Human neutrophils contain distinct cytosolic and particulate tyrosine kinase activities: possible role in neutrophil activation (997) 292
Bernaert, I., see Biermans, W. (974) 74
Bernardi, P., see Ventura, C. (987) 69
Bernbäck, S., Bläckberg, L. and Hernell, O.
Fatty acids generated by gastric lipase promote human milk triacylglycerol digestion by pancreatic colipase-dependent lipase (1001) 286
Bernués, J. and Querol, E.
Non-random reconstitution of HMG1 and HMG2 in chromatin. Determination of the histone contacts (1008) 52
Berry, E.M., see Stein, O. (1003) 115
Berry, S., Dawicki, D.D., Agarwal, K.C. and Steiner, M.
The role of microtubules in platelet secretory release (1012) 46
Bertho, P., Moreau, P., Juguelin, H., Gautier, M. and Cassagne, C.
Monensin-induced accumulation of neosynthesized lipids and fatty acids in a Golgi fraction prepared from etiolated leek seedlings (978) 91
Bertrand, P., see Dolla, A. (975) 395
Beschiaschvili, G., see Schwarz, G. (979) 82
Bessam, H., Mareck, A.M. and Foucher, B.
Neurospora crassa α-ketoglutarate dehydrogenase complex: description, resolution of components and catalytic properties (990) 66
Bessem, C., see Slavkin, H.C. (991) 12
Bessman, M.L., see Kornberg, A. (1000) 53
Bessoule, J.-J., Lessire, R. and Cassagne, C.
Theoretical analysis of the activity of membrane-bound enzymes using amphiphilic or hydrophobic substrates. Application to the acyl-CoA elongases from *Allium porrum* cells and to their purification (983) 35
Bessoule, J.-J., see Lessire, R. (1006) 35
Best, L., see Lynch, A.M. (1012) 166
Bester, A.J., see Van Helden, P.D. (1009) 137
Betermier, M., see Sautereau, A.M. (978) 276
Betins, J., see Vesterman, B. (998) 204
Betts, G.F., see Levy, L.M. (997) 331
Beuzard, Y., see Apovo, M. (984) 26
Bevers, E.M., see Comfurius, P. (983) 212
Bevers, E.M., see Middelkoop, E. (981) 151
Bey, P., see Skoog, M.T. (996) 89
Beynen, A.C., see Paulussen, R.J.A. (1001) 201
Bezanilla, F., see Caputo, C. (986) 250
Bhakuni, V. and Gupta, C.M.
Carbamyl phosphatidylcholine – cholesterol interactions in unilamellar vesicles (982) 216
Bhanot, P. and Weeks, G.
Studies on the mechanism of action of the alkaline phosphatase from *Dictyostelium discoideum* (995) 291
Bhargava, M.M., see Corrigall, A.V. (991) 399
Bhuyan, A.K., Lemtur, A., Subramanian, J. and Lalthantluanga, R.
Conformation of bovine nitrosylhemoglobins: an ESR study (997) 36
Bianchi, M.S., see Bianchi, N.O. (1007) 350
Bianchi, N.O., Bianchi, M.S., Alitalo, K. and De la Chapelle, A.
The methylation pattern of normal and truncated amplified human c-*myc* oncogenes (1007) 350
Bianconi, A., see Congiu Castellano, A. (996) 240
Biber, J., see Wuarin, F. (981) 185
Bickel-Sandkötter, S. and Gokus, M.
Characterization of nucleotide binding sites on membrane-bound chloroplast ATPase by modification with pyridoxal 5′-phosphate (974) 30
Bidet, M., see Merot, J. (978) 134
Bieber, L.L., see Cress, A.P. (992) 135
Bienvenüe, A., see Sainte-Marie, J. (982) 265

Bierman, E.L., see Slotte, J.P. (1005) 303
Biermans, W., Bernaert, I., De Bie, M., Nijs, B. and Jacob, W.
Ultrastructural localisation of creatine kinase activity in the contact sites between inner and outer mitochondrial membranes of rat myocardium (974) 74
Biesiada, E., see Krawczyk, Z. (1009) 237
Bieth, J.G., Dirrig, S., Jung, M.-L., Boudier, C., Papamichael, E., Sakarellos, C. and Dimicoli, J.-L.
Investigation of the active center of rat pancreatic elastase (994) 64
Bieth, J.G., see Boudier, C. (995) 36
Bieth, J.G., see Laurent, P. (994) 285
Biggs, D.R., see Huang, M. (1000) 365
Bigler, R.D., Brown, H.M., Guyre, P.M., Lund-Katz, S., Scerbo, L. and Esfahani, M.
Effect of low-density lipoprotein on the expression of high affinity Fcγ receptors (1011) 102
Bikle, D., Munson, S., Christakos, S., Kumar, R. and Buckendahl, P.
Calmodulin binding to the intestinal brush-border membrane: comparison to other calcium-binding proteins (1010) 122
Bilińska, B., see Stępień, K.B. (997) 49
Biliński, T., Litwińska, J., Błaszczyński, M. and Bajus, A.
Superoxide dismutase deficiency and the toxicity of the products of autooxidation of polyunsaturated fatty acids in yeast (1001) 102
Binaghi, R.A., see Borel, I.M. (990) 162
Binaglia, L., see Roberti, R. (1004) 80
Birdsall, W.J., Anderson, Jr., W.R. and Foster, N.
Studies of interactions of porphyrins with transfer RNA by high-resolution NMR (1007) 176
Birke, S., Kim, H.W., Periclou, A., Schorsch, B., Grouse, D. and Craney, C.
Kinetics of human erythrocyte glucose-6-phosphate dehydrogenase dimers (999) 243
Birkenhäger, J.C., see Jansen, H. (1001) 44
Birktoft, J.J., see Wilder, R.T. (997) 65
Bisaccia, F., De Palma, A. and Palmieri, F.
Identification and purification of the tricarboxylate carrier from rat liver mitochondria (977) 171
Bisswanger, H., see Graupe, K. (999) 176
Bittar, E.E., see Xie, H. (1014) 207
Bitter, W., see Bosch, D. (979) 69
Bitton, M., see Azoury, R. (995) 295
Bitton, M., see Lavie, E. (991) 62
Bixon, M., Jortner, J., Michel-Beyerle, M.E. and Ogrodnik, A.
A superexchange mechanism for the primary charge separation in photosynthetic reaction centers (977) 273
Bizouarn, T., De Kouchkovsky, Y. and Haraux, F.
Photophosphorylation at variable ADP concentration but constant ΔpH in lettuce thylakoids. Effect of ΔpH and phosphate on the apparent affinity for ADP (974) 104
Björkhem, I., see Berglund, L. (1002) 382
Björkhem, I., see Boberg, K.M. (1004) 321
Björkhem, I., see Hagenfeldt, Y. (1002) 84
Björkhem, I., see Östlund Farrants, A.-K. (1002) 198
Blaas, D., see Hofer, F. (992) 298
Blachier, F., Leclercq-Meyer, V., Marchand, J., Woussen-Colle, M.-C., Mathias, P.C.F., Sener, A. and Malaisse, W.J.
Stimulus-secretion coupling of arginine-induced insulin release. Functional response of islets to L-arginine and L-ornithine (1013) 144
Blachier, F., see Malaisse, W.J. (1013) 133
Bläckberg, L., see Bernbäck, S. (1001) 286
Blake, D.A., see Goudsmit, E.M. (992) 289
Blanche, P.J., see Gong, E.L. (1006) 317
Blanche, P.J., see Nichols, A.V. (1001) 325
Blancy, E., see Favre, G. (1013) 118
Blaner, W.S., see Galdieri, M. (1011) 168
Blangero, C., Rols, M.P. and Teissié, J.
Cytoskeletal reorganization during electric-field-induced fusion of Chinese hamster ovary cells grown in monolayers (981) 295
Blank, M., see Korbmacher, C. (985) 67
Blank, M.E., see Wyse, J.W. (979) 127
Blaskó, K., see Schagina, L.V. (978) 145
Błaszczyński, M., see Biliński, T. (1001) 102
Bloemendal, H. and Pieper, F.R.
Intermediate filaments: known structure, unknown function (1007) 245
Blombäck, B., Carlsson, K., Hessel, B., Liljeborg, A., Procyk, R. and Åslund, N.
Native fibrin gel networks observed by 3D microscopy, permeation and turbidity (997) 96
Blombäck, B., see Dyr, J.E. (990) 18
Blouin, M., see Guderley, H. (977) 87
Blouquit, M.-F., see Savu, L. (992) 379
Blouquit, Y., see Yannoukakos, D. (998) 43
Blubaugh, D.J., see Shopes, R.J. (974) 114
Blum, P.H. and Ames, B.N.
Immunochemical identification of a tRNA-independent cytokinin-like compound in *Salmonella typhimurium* (1007) 196
Boarato, E., see Mietto, L. (1013) 1
Boberg, K.M., Stabursvik, A., Björkhem, I. and Stokke, O.
Dehydroxylation of a 7β-hydroxy-C_{27} plant sterol in rat liver (1004) 321
Bobyleva-Guarriero, V., see Di Lisa, F. (973) 185
Bodenmüller, H., see Saffrich, R. (997) 144
Bodo, B., see Hajji, M.E. (978) 97
Boegheim, J.P.J., Lagerberg, J.W.M., Dubbelman, T.M.A.R. and Van Steveninck, J.
Damaging action of photodynamic treatment in combination with hyperthermia on transmembrane transport in murine L929 fibroblasts (979) 215
Boegheim, J.P.J., Lagerberg, J.W.M., Tijssen, K., Dubbelman, T.M.A.R. and Van Steveninck, J.
Preferential uptake of cytotoxic porphyrins from hematoporphyrin derivative in murine L929 fibroblasts and Chinese hamster ovary K1 epithelial cells (1012) 237
Boekema, E.J., Dekker, J.P., Rögner, M., Witt, I., Witt, H.T. and Van Heel, M.
Refined analysis of the trimeric structure of the isolated Photosystem I complex from the thermophilic cyanobacterium *Synechococcus* sp. (974) 81
Boelens, R., see De Marco, A. (994) 121
Böger, P., see Alpes, I. (973) 41
Boggs, J.M., Rangaraj, G. and Watts, A.
Behavior of spin labels in a variety of interdigitated lipid bilayers (981) 243
Boggs, J.M., Wang, H.-Y., Rangaraj, G. and Tümmler, B.
Interdigitation of phosphatidylcholine and phosphatidylethanolamine mixed with complexes of acidic lipids and polymyxin B or polymyxin B nonapeptide (985) 199
Boggs, J.M., see Jeffrey, K.R. (986) 241
Boggs, J.M., see Stinson, R.H. (986) 234
Boggs, J.M., see Wang, H.-Y. (985) 182
Bogorad, L., see Vallon, O. (975) 132
Bokoch, G.M., see Cupo, J.F. (982) 31
Boland, C.R., see Shimamoto, C. (991) 284
Boland, R., see Drittanti, L. (1014) 112
Boland, R.L., see Drittanti, L.N. (1012) 16
Boland, R.L., see Vega, M.A. (1012) 10
Bolard, J., see Frézard, F. (979) 316
Bolard, J., see Henry-Toulmé, N. (982) 245
Bolard, J., see Milhaud, J. (987) 193
Bolard, J., see Ramos, H. (982) 303

Bolgiano, B., Smith, L. and Davies, H.C.
Electron transport reactions in a cytochrome *c*-deficient mutant of *Paracoccus denitrificans* (973) 227
Bolis, S., Handley, C.J. and Comper, W.D.
Passive loss of proteoglycan from articular cartilage explants (993) 157
Bolognesi, A., Barbieri, L., Carnicelli, D., Abbondanza, A., Cenini, P., Falasca, A.I., Dinota, A. and Stirpe, F.
Purification and properties of a new ribosome-inactivating protein with RNA *N*-glycosidase activity suitable for immunotoxin preparation from the seeds of *Momordica cochinchinensis* (993) 287
Bolt, M.J.G., see Brasitus, T.A. (979) 177
Bolton-Smith, C., Hemming, F.W. and McGregor, L.
The effect of dietary linoleic acid on rat platelet sialic acid (1005) 183
Bomford, A., see Ward, R.J. (993) 131
Bon, C., see Radvanyi, F. (1006) 183
Bond, S.E., see Dillingham, E.O. (990) 128
Bond, S.E., see Petrusewicz, J. (983) 161
Bondon, A., see Simonneaux, G. (999) 42
Boneh, A., Mandla, S. and Tenenhouse, H.S.
Phorbol myristate acetate activates protein kinase C, stimulates the phosphorylation of endogenous proteins and inhibits phosphate transport in mouse renal tubules (1012) 308
Bonete, M.J., Camacho, M.L. and Cadenas, E.
Kinetic mechanism of *Halobacterium halobium* NAD^+-glutamate dehydrogenase (990) 150
Boni, L.T., see Stubbs, C.D. (986) 89
Bonicel, J.J., see De Caro, A.M. (994) 281
Bonincontro, A., see Hausman, R.E. (1013) 92
Bonkovsky, H.L., see Lincoln, B.C. (992) 49
Bonnefis, M.T., see Wang, S.R. (1002) 302
Bonnel, S.I., Lin, Y.-P., Kelley, M.J., Carman, G.M. and Eichberg, J.
Interactions of thiophosphatidic acid with enzymes which metabolize phosphatidic acid. Inhibition of phosphatidic acid phosphatase and utilization by CDP-diacylglycerol synthase (1005) 289
Bonomi, F., Cerioli, A. and Pagani, S.
Molecular aspects of the removal of ferritin-bound iron by DL-dihydrolipoate (994) 180
Bonomi, F., Long, R.C. and Kurtz, Jr., D.M.
Purification and properties of a membrane-bound NADH–cytochrome-b_5 reductase from erythrocytes of the sipunculid worm, *Phascolopsis gouldii* (999) 147
Bontemps, F., Vincent, M.F., Van den Bergh, F., Van Waeg, G. and Van den Berghe, G.
Stimulation by glycerate 2,3-bisphosphate: a common property of cytosolic IMP-GMP 5′-nucleotidase in rat and human tissues (997) 131
Börchers, T., Unterberg, C., Rüdel, H., Robenek, H. and Spener, F.
Subcellular distribution of cardiac fatty acid-binding protein in bovine heart muscle and quantitation with an enzyme-linked immunosorbent assay (1002) 54
Borel, I.M., Gentile, T., Angelucci, J., Margni, R.A. and Binaghi, R.A.
Asymmetrically glycosylated IgG isolated from non-immune human sera (990) 162
Borges, D.R., see Kouyoumdjian, M. (980) 299
Borghgraef, R., see De Smedt, H. (1012) 171
Borghgraef, R., see Van den Bosch, L. (979) 91
Borgström, B., see Fernandez, E. (1001) 249
Borin, G., see Cola, C. (1012) 191
Borojevic, R., see Margis, R. (1011) 1
Borovikov, Y.S., see Nowak, E. (999) 289
Borowski, E., see Hervé, M. (980) 261
Børresen, T., Klausen, N.K., Larsen, L.M. and Sørensen, H.
Purification and characterisation of tyrosine decarboxylase and aromatic-L-amino-acid decarboxylase (993) 108
Borri-Voltattorni, C., see Rosato, N. (996) 195
Borst, P. and Slater, E.C.
on 'The oxidation of glutamate by rat-heart sarcosomes' (1000) 323
Borst, P.
Peroxisome biogenesis revisited (1008) 1
Bosc-Bierne, I., see La Fournière, L. (998) 158
Bosch, D., De Boer, P., Bitter, W. and Tommassen, J.
The role of the positively charged N-terminus of the signal sequence of *E. coli* outer membrane protein PhoE in export (979) 69
Bosch, W., see Adams, V. (981) 213
Boscoboinik, D. and Epand, R.M.
Increased cellular internalization of amphiphiles in a multidrug-resistant CHO cell line (1014) 53
Bose, S., see Renganathan, M. (974) 247
Boss, W.F., see Wheeler, J.J. (984) 33
Bossa, F., see Petruzzelli, R. (995) 255
Bossy, D., see Pepin, D. (1006) 52
Boström, K., see Svennerholm, L. (1005) 109
Boswell, D.R., see Brennan, S.O. (993) 48
Botham, K.M., see Sutton, C.M. (1001) 210
Botré, C. and Botré, F.
Carbonic anhydrase and urease: an investigation in vitro on the possibility of a synergic action (997) 111
Botré, F., see Botré, C. (997) 111
Böttger, M., see Lüthje, S. (977) 335
Botti, B., Ceccarelli, D., Tomasi, A., Vannini, V., Muscatello, U. and Masini, A.
Biochemical mechanism of GSH depletion induced by 1,2-dibromoethane in isolated rat liver mitochondria. Evidence of a GSH conjugation process (992) 327
Boucher, F., see Pande, C. (973) 257
Boudier, C. and Bieth, J.G.
Mucus proteinase inhibitor: a fast-acting inhibitor of leucocyte elastase (995) 36
Boudier, C., see Bieth, J.G. (994) 64
Boudou, A., see Delnomdedieu, M. (986) 191
Bouheroum, M., Bruce, J.M. and Land, E.J.
The mechanism of the oxidative decarboxylation of 3,4-dihydroxymandelic acid: identification of 3,4-mandeloquinone as a key intermediate (998) 57
Boulnois, G.J., see Mitchell, T.J. (1007) 67
Bourguignon, G.J., see Jy, W. (983) 153
Bourguignon, L.Y.W., see Jy, W. (983) 153
Bourre, J.-M., see Tayarani, I. (985) 168
Bourre, J.M., Clément, M., Gérard, D. and Chaudière, J.
Alterations of cholesterol synthesis precursors (7-dehydrocholesterol, 7-dehydrodesmosterol, desmosterol) in dysmyelinating neurological mutant mouse (quaking, shiverer and trembler) in the PNS and the CNS (1004) 387
Bourrillon, R., see Saunier, B. (1011) 110
Boutry, M., see Falson, P. (975) 119
Bouvier, M. and Brown, G.R.
The induced circular dichroism of bilirubin complexed with the α-helix form of poly(L-lysine) (991) 303
Bovenberg, R.A.L., Moen, T.C., Jansz, H.S. and Baas, P.D.
In vitro splicing analysis of mini-gene constructs of the alternatively processed human calcitonin/CGRP-I pre-mRNA (1008) 223
Bowlby, N.R., see Ghanotakis, D.F. (974) 44
Bowman, L., see Ma, J.Y.C. (1003) 136
Bown, K.J., see Spencer, P. (994) 270
Boxer, G., see Chester, K.A. (1009) 297
Boxer, S.G., see Goldstein, R.A. (977) 70
Boxer, S.G., see Goldstein, R.A. (977) 78
Brachet, J. and Jeener, R.

on 'Proteines de structure de Szent-Györgyi et thymonucléohistone" (1000) 1
Brachet, J.
Recollections on the origins of molecular biology (1000) 1
Bradrick, T.D., Freire, E. and Georghiou, S.
A high-sensitivity differential scanning calorimetric study of the interaction of melittin with dipalmitoylphosphatidylcholine fused unilamellar vesicles (982) 94
Bradshaw, J.P., Edenborough, M.S., Sizer, P.J.H. and Watts, A.
A description of the phospholipid arrangement intermediate to the humidity produced L_α and H_{II} phases in dioleoylphosphatidylcholine and its modification by dioleoylphosphatidylethanolamine as studied by X-ray diffraction (987) 104
Bradshaw, J.P., Edenborough, M.S., Sizer, P.J.H. and Watts, A.
Observation of rippled dioleoylphosphatidylcholine bilayers by neutron diffraction (987) 111
Brady, J.N., see Marriott, S.J. (989) 97
Bragg, P.D. and Hou, C.
Reaction of 2-azido-ATP with β subunits in the F_1-adenosine triphosphatase of *Escherichia coli* (974) 24
Brajtburg, J., Gruda, I., Daigle, I. and Medoff, G.
Concentration dependent dual effect of the monolauryl ester of sucrose on the antifungal activity and absorption spectra of amphotericin B (Fungizone) (985) 307
Brand, M.D., see Nobes, C.D. (976) 241
Brand, M.D., see Nobes, C.D. (987) 115
Brändén, R., Janson, K. and Nilsson, P.
Studies of the Co^{2+}-activated ribulose-1,5-bisphosphate carboxylase/oxygenase by the use of spectrophotometry (995) 75
Brandsch, M., see Ermisch, A. (982) 79
Brandts, J.F., see Shiozawa, J.A. (980) 361
Branno, M., see Aniello, F. (1008) 31
Brasitus, T.A., Dudeja, P.K., Bolt, M.J.G., Sitrin, M.D. and Baum, C.
Dietary triacylglycerol modulates sodium-dependent D-glucose transport, fluidity and fatty acid composition of rat small intestinal brush-border membrane (979) 177
Brasitus, T.A., see Halline, A.G. (990) 280
Brasitus, T.A., see Halline, A.G. (992) 106
Braslavsky, S.E., see Nitsch, C. (975) 88
Brass, E.P. and Garrity, M.J.
Modulation of prostaglandin E_2 catabolism and action by fuel substrates in rat hepatocytes (1010) 233
Brass, E.P.
Metabolism of octanoyl- and palmitoylcarnitine by intact rat hepatocytes (1003) 209
Brasseur, R., see Goormaghtigh, E. (1006) 147
Brauer, M., see Towner, R.A. (993) 92
Braun, H.P. and Vogel. M.
Wave-guide spectroscopy on planar lipid bilayers doped with hydrophobic ions (978) 223
Braun, W., see Reymann, A. (1011) 158
Bravo, E., Cantafora, A. and Argiolas, L.
Hepatic uptake and metabolism of free cholesterol from different lipoprotein classes. An in vivo study in the rat (1003) 315
Brazinski, A., see McNerney, R. (1009) 185
Brdiczka, D., see Adams, V. (981) 213
Breedveld, G.J., see Van Urk, H. (992) 78
Bremer, J., see Berge, R.K. (1004) 345
Bremer, J., see Skrede, S. (1005) 296
Bremer, J., see Spydevold, (1003) 72
Brems, D.N., see MacKenzie, N.E. (994) 166
Brennan, S.O., Peach, R.J. and Boswell, D.R.
Novel human proalbumin variant with intact dibasic sequence facilitates identification of its converting enzyme (993) 48
Brennan, S.O., see Peach, R.J. (990) 276
Brenner, R.R., see Leikin, A.I. (1005) 187
Bresler, V.M., Valter, S.N., Jerebtsova, M.A., Isayev-Ivanov, V.V., Kazbekov, E.N., Kleiner, A.R., Orlov, Y.N., Ostapenko, I.A., Suchodolova, A.T. and Fomichev, V.N.
The influence of the lipid bilayer phase state on the *p*-aminohippurate (PAH) transport and the activity of the alkaline phosphatase in brush-border membrane vesicles from normal and mutant rats (982) 288
Breton, J. and Nabedryk, E.
Light-induced polarized Fourier transform infrared spectroscopy of bacteriorhodopsin - a study of the M_{412} intermediate by photoselection (973) 13
Breton, M., see Audubert, F. (1002) 62
Brettel, K.
New assignment for the 250 μs kinetics in Photosystem I: P-700$^+$ recombines with A_1^- (not F_X^-) (976) 246
Breu, V., see Kotzabasis, K. (977) 309
Brewer, Jr., H.B., see Mann, W.A. (1005) 239
Brewer, Jr., H.B., see Ross, R.S. (1004) 29
Briantais, J.-M., see Genty, B. (990) 87
Briantais, J.-M., see Hodges, M. (974) 289
Bridal, T., see Roeske, R.W. (982) 223
Brieland, J.K., Vissers, M.C.M., Phan, S.H. and Fantone, J.C.
Human platelets mediate iron release from transferrin by adenine nucleotide-dependent and -independent mechanisms (978) 191
Brik, H., Gamliel, A. and Shainberg, A.
Characterization of sarcoplasmic reticulum in skinned muscle cultures (980) 273
Brimble, S. and Bruce, D.
Pigment orientation and excitation energy transfer in *Porphyridium cruentum* and *Synechococcus* sp. PCC 6301 cross-linked in light state 1 and light state 2 with glutaraldehyde (973) 315
Brimble, S., see Bruce, D. (974) 66
Bringas, Jr., P., see Slavkin, H.C. (991) 12
Brinkman, H.-J.M., see Van Buul-Wortelboer, M.F. (1011) 129
Britigan, B.E., see Pou, S. (991) 459
Broadhurst, M.J., see Williamson, M.P. (997) 9
Brocklehurst, K.W. and Pollard, H.B.
Interaction of protein kinase C with chromaffin granule membranes: effects of Ca^{2+}, phorbol esters and temperature reveal differences in the properties of the association and dissociation events (979) 157
Brockman, H.L., see Camulli, E.D. (1005) 177
Brockman, H.L., see Kissel, J.A. (1006) 227
Brodin, T., see Thurin, J. (1002) 267
Bröring, K., Haest, C.W.M. and Deuticke, B.
Translocation of oleic acid across the erythrocyte membrane. Evidence for a fast process (986) 321
Brown, A.D., see Marengo, T. (976) 102
Brown, G.R., see Bouvier, M. (991) 303
Brown, H.M., see Bigler, R.D. (1011) 102
Brown, L.A.S. and Wood, L.H.
Stimulation of surfactant secretion by vasopressin in primary cultures of adult rat type II pneumocytes (1001) 76
Brown, P.M. and Silvius, J.R.
Stability and fusion of lipid vesicles containing headgroup-modified analogues of phosphatidylethanolamine (980) 181
Brown, W.V., see Oka, K. (1008) 351
Browne, C.A., see Hey, A.W. (997) 27
Browne, H.M., see McCormack, J.G. (973) 420
Bruce, D., Brimble, S. and Bryant, D.A.
State transitions in a phycobilisome-less mutant of the cyanobacterium *Synechococcus* sp. PCC 7002 (974) 66
Bruce, D., see Brimble, S. (973) 315
Bruce, J.M., see Bouheroum, M. (998) 57
Bruinenberg, P.G., Evers, M., Waterham, H.R., Kuipers, J., Arnberg, A.C. and AB, G.

Cloning and sequencing of the peroxisomal amine oxidase gene from *Hansenula polymorpha* (1008) 157
Brummell, D.A. and Maclachlan, G.A.
Calcium antagonist interferes with auxin-regulated xyloglucan glycosyltransferase levels in pea membranes (1014) 298
Brunati, A.M., see Cola, C. (1012) 191
Brune, D.C.
Sulfur oxidation by phototrophic bacteria (975) 189
Brunet, J.E., see Jullian, C. (997) 206
Bruni, A., see Mietto, L. (1013) 1
Bruni, P., see Vasta, V. (1011) 165
Bruni, R., see Baritussio, A. (1006) 19
Brunink, B.G., see Peeters, P.A.M. (981) 269
Brunner, W.F., see Caputo, C.B. (1012) 299
Brunori, M., see Petruzzelli, R. (995) 255
Bruschi, M., see Dolla, A. (975) 395
Brust, P., see Ermisch, A. (982) 79
Bryant, D.A., see Bruce, D. (974) 66
Bryant, D.A., see Maxson, P. (977) 40
Brzezinski, P., see Oliveberg, M. (977) 322
Buchanan, S., see Fritzsch, G. (977) 157
Bücher, T.
Commentary by (1000) 223
Bücher, T.
on 'Uber ein phosphatübertragendes Gärungsferment' (1000) 223
Buchet, R., Jona, I. and Martonosi, A.
Correlation of structure and function in the Ca^{2+}-ATPase of sarcoplasmic reticulum: a Fourier transform infrared spectroscopy (FTIR) study on the effects of dimethyl sulfoxide and urea (983) 167
Buck, H.M., see Meulendijks, G.H.W.M. (979) 321
Buckendahl, P., see Bikle, D. (1010) 122
Buckmann, A.F., see Ottolina, G. (998) 173
Buhse, Jr., H.E., see Ryals, P.E. (991) 438
Bukhrashvili, I.S., Chinchaladze, D.Z., Lavrik, O.I., Levina, A.S., Nevinsky, G.A. and Prangishvili, D.A.
Comparison of initiating abilities of primers of different length in polymerization reactions catalyzed by DNA polymerases from thermoacidophilic archaebacteria (1008) 102
Büldt, G., see Fimmel, S. (978) 231
Bullough, D.A., Ceccarelli, E.A., Roise, D. and Allison, W.S.
Inhibition of the bovine-heart mitochondrial F_1-ATPase by cationic dyes and amphipathic peptides (975) 377
Bunning, R.A.D., see Andrews, H.J. (1012) 128
Burattini, E., see Congiu Castellano, A. (996) 240
Burau, R.G., see Akeson, M.A. (986) 33
Burchell, A., see Pears, J. (993) 224
Burckhardt, G., Luck, G., Zimmer, C., Störl, J., Krowicki, K. and Lown, J.W.
Variation of DNA sequence specificity of DNA-oligopeptide binding ligands related to netropsin: imidazole-containing lexitropsins (1009) 11
Burguillo, F.J., see Moran, A. (990) 288
Burhans, M.S., see Wispe, J.R. (994) 30
Burkart, V., see Aring, J. (1010) 140
Burke, T.G., Israel, M., Seshadri, R. and Doroshow, J.H.
A fluorescence study examining how 14-valerate side chain substitution modulates anthracycline binding to small unilamellar phospholipid vesicles (982) 123
Burlini, N., Morandi, S., Pellegrini, R., Tortora, P. and Guerritore, A.
Studies on the degradative mechanism of phosphoenolpyruvate carboxykinase from the yeast *Saccharomyces cerevisiae* (1014) 153
Burns, K., see Fliegel, L. (982) 1
Bursaux, E., see Yannoukakos, D. (998) 43
Buryanov, Y., see Kossykh, V. (1009) 290
Busath, D., see Roeske, R.W. (982) 223
Busby, M.J., see Verdery, R.B. (1006) 287
Busetta, B.
The use of folding patterns in a multisolution approach of the all-β protein three-dimensional structure. A β-roll structure is predicted in the retroviral glycoprotein (998) 301
Bushmakina, N.G., see Fuki, I.V. (1001) 235
Busscher, H.J., see Van der Mei, H.C. (991) 395
Busse, S.C., Mann, P.L. and Griffey, R.H.
Senescence-induced alteration in cell surface carbohydrates correlated using proton NMR spectroscopy and a lectin-based affinity-binding assay (984) 183
Busshardt, E., Gerok, W. and Häussinger, D.
Regulation of hepatic parenchymal and non-parenchymal cell function by the diadenine nucleotides Ap_3A and Ap_4A (1010) 151
Busslinger, M., see Superti-Furga, G. (1007) 237
Bustelo, X.R., Pichel, J.G., Dosil, M., Segade, F. and Gómez-Márquez, J.
The levels of cytochrome *c* oxidase subunit II mRNA change during the rat T-cell development (977) 341
Busto, F., see De Arriaga, D. (998) 221
Butcher, P.A., Steele, L.W., Ward, M.R. and Olver, R.E.
Transport of sodium into apical membrane vesicles prepared from fetal sheep alveolar type II cells (980) 50
Butler, K.W., see Sauer, F.D. (1004) 205
Butler, M.H. and Wright, B.E.
Pyruvate oxidation in vivo and in vitro in *Dictyostelium discoideum* (991) 337
Butterfield, D.A., see Wyse, J.W. (979) 121
Butterfield, D.A., see Wyse, J.W. (979) 127
Byers, D.M., see George, T.P. (1004) 283
Byers, D.M., see Glanville, N.T. (1004) 169
Byers, L.D., see Li, Y.-K. (999) 227

C

Caamaño, C.A., see Robetto, E.J. (1013) 223
Caballero, F.J., see Moreno-Vivián, C. (977) 297
Cabantchik, Z.I., see Eidelman, O. (988) 319
Cabezas, J.A., see García-Sastre, A. (999) 171
Cabrini, L., see Landi, L. (984) 21
Cadenas, E., see Bonete, M.J. (990) 150
Caggese, C., see De Pinto, V. (987) 1
Calabria, R., see Barbato, G. (991) 324
Caldarera, C.M., see Ventura, C. (987) 69
Calderan, A., see Cola, C. (1012) 191
Callender, R., see Pande, C. (973) 257
Calvert, G.D., see Abbey, M. (1003) 20
Calvin, M.
Intermediates in the photosynthetic cycle: a commentary by (1000) 403
Calvin, M., see Bassham, J.A. (1000) 403
Camacho, M.L., see Bonete, M.J. (990) 150
Camara, J., see Malaisse, W.J. (1013) 133
Cameron, I., see Series, J. (1003) 183
Cametti, C., see Hausman, R.E. (1013) 92
Camici, M., see Del Corso, A. (993) 116
Camm, E.L. and Green, B.R.
The chlorophyll *ab* complex, CP29, is associated with the Photosystem II reaction centre core (974) 180
Campain, J.A., see Cosgrove, D.E. (1007) 44
Campbell, D.G., see MacDougall, L.K. (1010) 218
Campoleoni, A., see Chiabrando, C. (1006) 167

Camulli, E.D., Linke, M.J., Brockman, H.L. and Hui, D.Y.
Identity of a cytosolic neutral cholesterol esterase in rat liver with the bile salt stimulated cholesterol esterase in pancreas (1005) 177
Candia, A.F., see Beidler, D.R. (1014) 101
Canicatti, C., see Roch, P. (983) 193
Cann, J.R., see Rao, A.G.A. (997) 278
Cano, A., see Valencia, A. (990) 93
Cantafora, A., see Alvaro, D. (1006) 116
Cantafora, A., see Bravo, E. (1003) 315
Canti, G., see Lombardi, P. (1003) 301
Cantoni, O., Cattabeni, F., Stocchi, V., Meyn, R.E., Cerutti, P. and Murray, D.
Hydrogen peroxide insult in cultured mammalian cells: relationships between DNA single-strand breakage, poly(ADP-ribose) metabolism and cell killing (1014) 1
Capes, S.E., see Wong, P.T.T. (980) 37
Capobianco, L., see Indiveri, C. (977) 187
Capon, C., see De Caro, A.M. (994) 281
Capurro, C., see Porta, M. (980) 220
Caputo, C., Bezanilla, F. and DiPolo, R.
Currents related to the sodium-calcium exchange in squid giant axon (986) 250
Caputo, C.B., Sygowski, L.A., Brunner, W.F., Scott, C.W. and Salama, A.I.
Properties of several protein kinases that copurify with rat spinal cord neurofilaments (1012) 299
Cardemil, E., see Alvear, M. (994) 7
Cardemil, E., see Jabalquinto, A.M. (996) 257
Cárdenas, J., see Moreno-Vivián, C. (977) 297
Carelli, V., Casini, A., Desideri, A., Agrò, A.F., Liberatore, F. and Tortorella, S.
Adriamycin-catalyzed aerobic photooxidation of NAD dimers to NAD^+ (991) 25
Carling, D. and Hardie, D.G.
The substrate and sequence specificity of the AMP-activated protein kinase. Phosphorylation of glycogen synthase and phosphorylase kinase (1012) 81
Carlsson, K., see Blombäck, B. (997) 96
Carlsson, U., see Bergenhem, N. (998) 277
Carlsson-Skwirut, C., Lake, M., Hartmanis, M., Hall, K. and Sara, V.R.
A comparison of the biological activity of the recombinant intact and truncated insulin-like growth factor 1 (IGF-1) (1011) 192
Carman, G.M., see Bonnel, S.I. (1005) 289
Carmeliet, E., see Lemmens, M. (984) 351
Carnicelli, D., see Bolognesi, A. (993) 287
Carothers Carraway, C.A., see Carraway, K.L. (988) 147
Carpentier, R., Leblanc, R.M. and Mimeault, M.
Photoacoustic detection of photosynthetic energy storage in Photosystem II submembrane fractions (975) 370
Carr, H.J., see Plumb, G.W. (999) 281
Carrasquer, G., Wu, X., Kissel, D., Rehm, W.S., Schwartz, M. and Dinno, M.A.
Microelectrode studies of amphotericin B on Na^+ and K^+ conductance in bullfrog cornea (982) 73
Carrasquer, G., see Holloman, T.L. (980) 367
Carrasquer, G., see Schwartz, M. (979) 299
Carraway, K.L. and Carothers Carraway, C.A.
Membrane–cytoskeleton interactions in animal cells (988) 147
Carrea, G., see Ottolina, G. (998) 173
Carreira, L.A., see Balasubramaniam, A. (997) 176
Carrère, J., Chazalette, J.P. and Figarella, C.
Behaviour of serum immunoreactive trypsin after serum activation by enterokinase in normal and cystic fibrosis patients. Evidence of a trypsin–α_1-proteinase inhibitor complex in some cystic fibrosis patients (993) 137
Carrier, D., Giziewicz, J.B., Moir, D., Smith, I.C.P. and Jarrell, H.C.
Dynamics and orientation of glycolipid headgroups by ^{2}H-NMR: gentiobiose (983) 100
Carroll, K.K., see Khosla, P. (1002) 157
Carruthers, A., see Naderi, S. (985) 173
Cartení-Farina, M., see Barbato, G. (991) 324
Carter, D.P., see Raval, P.J. (983) 230
Carter, H.R., see Wallace, M.A. (1006) 311
Carter-Burks, G., see Dillingham, E.O. (990) 128
Carter-Burks, G., see Petrusewicz, J. (983) 161
Casal, H.L., Mantsch, H.H. and Hauser, H.
Infrared and ^{31}P-NMR studies of the interaction of Mg^{2+} with phosphatidylserines: effect of hydrocarbon chain unsaturation (982) 228
Casals, C., Herrera, L., Miguel, E., Garcia-Barreno, P. and Municio, A.M.
Comparison between intra- and extracellular surfactant in respiratory distress induced by oleic acid (1003) 201
Casaregola, S., Khidhir, M. and Holland, I.B.
In vitro replication and mutagenesis of ColE1 plasmid DNA in extracts from repair deficient *Escherichia coli* mutants (1008) 45
Casini, A., see Carelli, V. (991) 25
Caslake, M., see Series, J. (1003) 183
Cassagne, C., see Bertho, P. (978) 91
Cassagne, C., see Bessoule, J.-J. (983) 35
Cassagne, C., see Lessire, R. (1006) 35
Cassaigne, A., see Dumora, C. (997) 193
Cassano, G., see Vilella, S. (984) 188
Castagna, M., see Frézard, F. (979) 316
Castagnola, M., see Congiu Castellano, A. (996) 240
Casteels, R., see Missiaen, L. (990) 40
Castillo, F., see Moreno-Vivián, C. (977) 297
Castor, L., see Chance, B. (1000) 345
Castro, J., see Guzmán, M. (1002) 405
Catala, D., see Wang, S.R. (1002) 302
Catapano, A.L., see Lombardi, P. (1003) 301
Cattabeni, F., see Cantoni, O. (1014) 1
Caughey, G.H., see Pison, U. (992) 251
Causey, A.G., see Veitch, K. (1006) 335
Cavallini, D., see Ricci, G. (990) 211
Cavallini, L., see Francesconi, M.A. (999) 163
Ceccarelli, D., see Botti, B. (992) 327
Ceccarelli, D., see Masini, A. (1014) 133
Ceccarelli, E.A., see Bullough, D.A. (975) 377
Ceccarini, C., see Conti, R. (1008) 315
Cecchelli, R., see Martin-Nizard, F. (1005) 201
Cejudo, F.J., see Ruiz, M.T. (993) 36
Čénas, N.K., Rakauskiené, G.A. and Kulys, J.J.
One- and two-electron reduction of quinones by glutathione reductase (973) 399
Cenini, P., see Bolognesi, A. (993) 287
Cerioli, A., see Bonomi, F. (994) 180
Cerutti, P., see Cantoni, O. (1014) 1
César, R., see Verly, W.G. (1008) 183
Cestaro, B., see Marchesini, S. (1002) 14
Cestaro, B., see Viani, P. (1002) 20
Chacon, J.N., see Lambert, C. (993) 12
Chajek-Shaul, T., Friedman, G., Stein, O., Shiloni, E., Etienne, J. and Stein, Y.
Mechanism of the hypertriglyceridemia induced by tumor necroris factor administration to rats (1001) 316
Chajek-Shaul, T., Halimi, O., Ben-Naim, M., Stein, O. and Stein, Y.
Phosphatidylinositol-specific phospholipase C releases lipoprotein lipase from the heparin releasable pool in rat heart cell cultures (1014) 178
Chakrabarti, P., see Kundu, M. (985) 97

Chakraborti, P., see Chang, T.-m. (1010) 166
Chakraborty, M., see Chatterjee, D. (984) 104
Chalmers, J.A. and Sharp, G.W.G.
The importance of Ca^{2+} for glucose-induced priming in pancreatic islets (1011) 46
Chambaz, J., see Pepin, D. (1006) 52
Chan, A.C., Tran, K., Pyke, D.D. and Powell, W.S.
Effects of dietary vitamin E on the biosynthesis of 5-lipoxygenase products by rat polymorphonuclear leukocytes (PMNL) (1005) 265
Chan, A.C., see Choy, P.C. (1005) 225
Chan, C.K., Gaines, III, G.L., Fleming, G.R. and Mets, L.J.
Chlorophyll fluorescence lifetime studies of greening in yellow mutants of *Chlamydomonas reinhardtii*: assembly of the Photosystem I core complex (975) 59
Chan, H.-C., Glockner, J.F. and Swartz, H.M.
Oximetry in cells and tissues using a nitroxide-liposome system (1014) 141
Chan, L., see Yang, C.-y. (1002) 231
Chan, Y.-L., see Devi, K.R.G. (1008) 258
Chance, B., Smith, L. and Castor, L.
on 'New methods for the study of the carbon monoxide compounds of respiratory enzymes' (1000) 345
Chance, B.
Commentary by (1000) 345
Chance, B., see Powers, L. (975) 293
Chance, B., see Tanaka, A. (993) 280
Chang, C.-H., see Hirata, M. (1010) 346
Chang, C.C.Y., see Shi, S.P. (982) 187
Chang, C.H., see Chang, T.-M. (1014) 229
Chang, C.H.L., see Chang, T.-M. (1013) 239
Chang, C.H.L., see Chang, T.-m. (1010) 166
Chang, H.-C., see Liao, T.-H. (1007) 15
Chang, K.-T., see Hirasawa, M. (977) 150
Chang, L.Y., see Waldman, S.A. (999) 157
Chang, T.-M. and Chang, C.H.
Diacytosis of asialoglycoprotein in isolated hepatocytes is dependent on the structure of ligand and cellular distribution of the receptors (1014) 229
Chang, T.-M. and Chang, C.H.L.
Study on the variables affecting toxicity of hybrid toxins. The effect of different target cell receptor distribution and toxin binding chain (1013) 239
Chang, T.-m., Chakraborti, P. and Chang, C.H.L.
The cyanogen bromide fragment I of asialoorosomucoid is transported more efficiently than asialoorosomucoid in rat hepatocytes (1010) 166
Chang, T.H.P., see Rothman, S.S. (991) 484
Chang, T.M.S., see Daka, N.J. (991) 487
Chang, T.Y., see Shi, S.P. (982) 187
Chang, W.-C., see Chao, S.-C. (1007) 233
Chansel, D., see Dussaule, J.-C. (1005) 34
Chanussot, F., see Martigne, M. (979) 341
Chao, J., see Chao, S. (991) 477
Chao, L., see Chao, S. (991) 477
Chao, S., Chao, L. and Chao, J.
Sex dimorphism and inflammatory regulation of T-kininogen and T-kininogenase (991) 477
Chao, S.-C., Pan, F.-M. and Chang, W.-C.
Purification of carp growth hormone and cloning of the complementary DNA (1007) 233
Chap, H., see Simard, G. (1001) 225
Chapman, D., see Fowler, C. (980) 348
Chapman, D., see Haris, P.I. (995) 160
Chapman, D., see Jackson, M. (998) 75
Chapman, D., see Urbaneja, M.-A. (998) 85
Chapman, D., see Villalain, J. (978) 305
Chapman, D., see Welte, W. (984) 193
Chapman, D.J., see Gounaris, K. (973) 296
Charette, L., see Patrignani, P. (992) 71
Chargaff, E.
In retrospect: a commentary by (1000) 15
Chargaff, E., see Magasanik, B. (1000) 15
Charles, L., see Weinhold, P.A. (1006) 299
Charnock, J.S., see Abeywardena, M.Y. (1003) 161
Chartier, F., Laine, B., Belaïche, D., Touzel, J.-P. and Sautière, P.
Primary structure of the chromosomal protein MC1 from the archaebacterium *Methanosarcina* sp. CHTI 55 (1008) 309
Chashchin, V.L., see Adamovich, T.B. (996) 247
Chashchin, V.L., see Turko, I.V. (996) 37
Chatterjee, A., see Chatterjee, D. (984) 104
Chatterjee, D., Lahiri, P., Chatterjee, A. and Chakraborty, M.
Bay K8644 like activity of an antibody against a 60 kDa tubular membrane protein (984) 104
Chaudière, J., see Bourre, J.M. (1004) 387
Chávez, E., Zazueta, C., Díaz, E. and Holquín, J.A.
Characterization by Hg^{2+} of two different pathways for mitochondrial Ca^{2+} release (986) 27
Chazalette, J.P., see Carrère, J. (993) 137
Che, C.M., see Cho, K.C. (973) 53
Chedekel, M.R., see Lambert, C. (993) 12
Cheeseman, K.H., see Balasubramanian, K.A. (1003) 232
Cheillan, F., Lafont, H., Termine, E., Fernandez, F., Sauve, P. and Lesgards, G.
Molecular characteristics of the cholesterol oxidase and factors influencing its activity (999) 233
Chekulaeva, L.N., see Drachev, A.L. (976) 190
Chen, C.-H., see Baker, G.M. (992) 333
Chen, J.-C., see Shiao, Y.-J. (980) 56
Chen, J.-C., see Wang, C.-N. (986) 151
Chen, K. and Swartz, H.M.
The products of the reduction of doxyl stearates in cells are hydroxylamines as shown by oxidation by ^{15}N-perdeuterated Tempone (992) 131
Chen, Q., Sternby, B. and Nilsson, Å.
Hydrolysis of triacylglycerol arachidonic and linoleic acid ester bonds by human pancreatic lipase and carboxyl ester lipase (1004) 372
Chen, S.-C., see Teng, C.-M. (990) 315
Chen, Y.-J., see Hua, Q.-X. (994) 114
Cheney, B.V., Schulz, M.W. and Cheney, J.
Complexes of benzene with formamide and methanethiol as models for interactions of protein substructures (996) 116
Cheney, J., see Cheney, B.V. (996) 116
Cheng, C.-H.C. and DeVries, A.L.
Structures of antifreeze peptides from the antarctic eel pout, *Austrolycicthys brachycephalus* (997) 55
Cheng, H.-F. and Tao, M.
Purification and characterization of a phosphotyrosyl-protein phosphatase from wheat seedlings (998) 271
Cheng, N., see De Loecker, W. (982) 9
Cheniae, G.M., see Tamura, N. (976) 173
Chernenko, G.A., Barrowman, J.A., Kean, K.T., Herzberg, G.R. and Keough, K.M.W.
Intestinal absorption and lymphatic transport of fish oil (MaxEPA) in the rat (1004) 95
Chernin, M.I., see Beidler, D.R. (1014) 101
Chernov, N.N., see Kabanov, A.V. (996) 147
Cherry, R.J., see Clague, M.J. (980) 93
Cherry, R.J., see Clague, M.J. (981) 43
Chester, K.A., Robson, L., Begent, R.H.J., Talbot, I.C., Pringle, J.H., Primrose, L., Macpherson, A.J.S., Boxer, G., Southall, P. and Malcolm, A.D.B.

Identification of a human ribosomal protein mRNA with increased expression in colorectal tumours (1009) 297
Chiabrando, C., Pinciroli, V., Perico, N., Campoleoni, A., Benigni, A., Remuzzi, G. and Fanelli, R.
Metabolism of thromboxane B_2 in the isolated perfused rat kidney: mass spectrometric identification of urinary products (1006) 167
Chiancone, E., see Lundberg, P. (999) 12
Chiao, J.S., see Tianhui, X. (991) 1
Chiao, J.S., see Tianhui, X. (991) 6
Chiasson, J.-L., see Srivastava, A.K. (996) 13
Chiba, K., see Sakiyama, H. (990) 156
Chihara, M., Nomura, T., Tachibana, M., Nomura, H., Nomura, Y. and Hagino, Y.
Effects of exogenous phospholipase enzymes, arachidonic acid and 1-oleoyl-2-acetyl-*sn*-glycerol on ketogenesis in isolated rat hepatocytes (1012) 5
Chijiiwa, K. and Nagai, M.
Interaction of bile salt monomer and cholesterol in the aqueous phase (1001) 111
Chilton, F.H., see Triggiani, M. (1006) 41
Chimshirova, K., see Srebreva, L. (1008) 346
Chin, R., see Tilcock, C. (986) 167
Chinchaladze, D.Z., Prangishvili, D.A., Scamrov, A.V., Beabealashvili, R.S., Dyatkina, N.B. and Krayevsky, A.A.
Nucleoside 5′-triphosphates modified at sugar residues as substrates for DNA polymerase from the thermoacidophilic archaebacterium *Sulfolobus acidocaldarius* (1008) 113
Chinchaladze, D.Z., see Bukhrashvili, I.S. (1008) 102
Chishti, S.B., see Cohen, S.G. (997) 167
Cho, K.C., Chu, W.F., Choy, C.L. and Che, C.M.
Electron transfer between cytochrome *c* and metal hexacyanide complexes. Effect of thermodynamic driving force on the electron transfer rate (973) 53
Choay, J., see Hemker, H.C. (992) 409
Choli, T., see Fimmel, S. (978) 231
Chong, I., see Yang, C.-y. (1002) 231
Chong, P.L.-G., see Bar, L.K. (983) 109
Choo, W.M., see Marzuki, S. (975) 222
Chorąży, M., see Krawczyk, Z. (1009) 237
Chottard, G.
Formation of cyanoferricytochrome *c* in the presence of potassium ferricyanide, in the course of a Raman resonance experiment (997) 155
Chow, W.S., Hope, A.B. and Anderson, J.M.
Oxygen per flash from leaf disks quantifies Photosystem II (973) 105
Chowrashi, P.K. and Pepe, F.A.
The myosin filament XIII. The sensitivity of LMM assembly to Mg · ATP (997) 182
Chowrashi, P.K., Pemrick, S.M. and Pepe, F.A.
LC2 involvement in the assembly of skeletal myosin filaments (990) 216
Choy, C.L., see Cho, K.C. (973) 53
Choy, P.C., O, K., Man, R.Y.K. and Chan, A.C.
Phosphatidylcholine metabolism in isolated rat heart: modulation by ethanol and vitamin E (1005) 225
Chrétien, M., see Paquin, J. (999) 103
Christakos, S., see Bikle, D. (1010) 122
Christensen, E., Grønn, M., Hagve, T.-A., Kase, B.F. and Christophersen, B.O.
Adrenoleukodystrophy. The chain shortening of erucic acid (22 : 1($n-9$)) and adrenic acid (22 : 4($n-6$)) is deficient in neonatal adrenoleukodystrophy and normal in X-linked adrenoleukodistrophy skin fibroblasts (1002) 79
Christensen, E., Hagve, T.-A., Grønn, M. and Christophersen, B.O.
β-Oxidation of medium chain (C_8–C_{14}) fatty acids studied in isolated liver cells (1004) 187
Christensen, E., see Hagve, T.-A. (1004) 143
Christensen, H.N., see Collarini, E.J. (987) 139
Christensen, H.N., see Stewart, B.H. (987) 145
Christensen, M., see Rose, K. (998) 297
Christon, R., Even, V., Daveloose, D., Léger, C.L. and Viret, J.
Modification of fluidity and lipid–protein relationships in pig intestinal brush-border membrane by dietary essential fatty acid deficiency (980) 77
Christophersen, B., see Hagve, T.-A. (1004) 143
Christophersen, B.O., see Christensen, E. (1002) 79
Christophersen, B.O., see Christensen, E. (1004) 187
Chu, A.K., see Collins, J.M. (1009) 264
Chu, F.-F., see Akman, S.A. (1009) 70
Chu, S.-h.W., see Ozaki, C.K. (991) 243
Chu, W.F., see Cho, K.C. (973) 53
Chuang, L.F., Zhao, F.-K. and Chuang, R.Y.
Isolation and purification of protein kinase C from human leukemia ML-1 cells: phosphorylation of human leukemia RNA polymerase II in vitro (992) 87
Chuang, R.Y., see Chuang, L.F. (992) 87
Chung, C., see Clagett-Dame, M. (986) 271
Chung, J., Yu, S.-H., Whitsett, J.A., Harding, P.G.R. and Possmayer, F.
Effect of surfactant-associated protein-A (SP-A) on the activity of lipid extract surfactant (1002) 348
Chung, W., see Yu, S.-H. (1005) 93
Chung, Y.J. and Jeffrey, G.A.
The lyotropic liquid crystal properties of *n*-octyl 1-*O*-β-D-glucopyranoside and related *n*-alkyl pyranosides (985) 300
Churchich, J.E., Scholz, G. and Kwok, F.
Activation of pyridoxal kinase by metallothionein (996) 181
Ciabattoni, G., Pugliese, F., Davi, G., Pierucci, A., Simonetti, B.M. and Patrono, C.
Fractional conversion of thromboxane B_2 to urinary 11-dehydrothromboxane B_2 in man (992) 66
Ciarrocchi, A., see Michelangeli, F. (983) 82
Cifone, M.G., Alesse, E., Procopio, A., Paolini, R., Morrone, S., Di Eugenio, R., Santoni, G. and Santoni, A.
Effects of cadmium on lymphocyte activation (1011) 25
Cilento, G., see Nascimento, A.L.T.O. (991) 50
Ciman, M., see Sartorelli, L. (1006) 15
Cirino, M., see Patrignani, P. (992) 71
Cisar, L.A., Melford, K.H., Sensel, M. and Bensadoun, A.
Heparin decreases the degradation rate of hepatic lipase in Fu5AH rat hepatoma cells. A model for hepatic lipase efflux from hepatocytes (1004) 196
Claeyssens, M., see Mischak, H. (990) 1
Clagett-Dame, M., Schoenleber, R., Chung, C. and McKelvy, J.F.
Preparation of an affinity chromatography matrix for the selective purification of the dopamine D2 receptor from bovine striatal membranes (986) 271
Clague, M.J. and Cherry, R.J.
A comparative study of band 3 aggregation in erythrocyte membranes by melittin and other cationic agents (980) 93
Clague, M.J., Harrison, J.P. and Cherry, R.J.
Cytoskeletal restraints of band 3 rotational mobility in human erythrocyte membranes (981) 43
Clancy, M.J., see Pugh, T.A. (994) 200
Clandinin, M.T., see Garg, M.L. (1006) 127
Clandinin, M.T., see Hargreaves, K.M. (1001) 262
Clandinin, M.T., see Thomson, A.B.R. (1001) 302
Clark, B.A., see Andley, U.P. (997) 284
Clark, J.C., see Wispe, J.R. (994) 30
Clark, J.F. and Dillon, P.F.
Mechanical and metabolic toxicity of 3-(trimethylsilyl)propanesulfonic acid to porcine carotid arteries (1014) 235
Clark, S.J., Ashford, A.J., Price, N.T. and Proud, C.G.

Casein kinase-2 phosphorylates serine-2 in the β-subunit of initiation factor-2 (1010) 377
Clark, S.J., see Price, N.T. (1008) 177
Clark-Walker, G.D., see Huang, M. (1000) 365
Clarke, R.J., Apell, H.-J. and Läuger, P.
Pump current and Na^+/K^+ coupling ratio of Na^+/K^+-ATPase in reconstituted lipid vesicles (981) 326
Clarkson, T.W., see Magos, L. (991) 85
Clavey, V., see Benhamamouch, S. (1002) 45
Clay, M.A., Hopkins, G.J., Ehnholm, C.P. and Barter, P.J.
The rabbit as an animal model of hepatic lipase deficiency (1002) 173
Clay, V.J. and Ragan, C.I.
Biosynthesis and import into the mitochondrion of L-3-glycerophosphate dehydrogenase, and the effect of thyroid hormone deficiency on gene expression (975) 112
Cleland, W.W.
Enzyme kinetics revisited: a commentary by (1000) 209
Cleland, W.W.
on 'The kinetics of enzyme-catalyzed reactions with two or more substrates or products' (1000) 209
Clément, M., see Bourre, J.M. (1004) 387
Clifford, J.L., see Lah, T.T. (993) 63
Cloëz, I., see Tayarani, I. (985) 168
Cocito, C., see Nyssen, E. (1009) 39
Cocuzza, C.E., see Pessina, A. (1013) 206
Codrington, J.F., Kutlar, F., Harris, H.F., Wilson, J.B., Stoming, T.A. and Huisman, T.H.J.
Hb A_2-Wrens or $\alpha_2\delta_2$98(FG5)Val → Met, an unstable δ chain variant identified by sequence analysis of amplified DNA (1009) 87
Cohen, B.E., see Ramos, H. (982) 303
Cohen, G.N., see Wong, P.T.T. (996) 260
Cohen, J.B., see Cohen, S.G. (997) 167
Cohen, L.H., Van Miert, E. and Griffioen, M.
Regulation of squalene synthetase in human hepatoma cell line Hep G2 by sterols, and not by mevalonate-derived non-sterols (1002) 69
Cohen, M.S., see Pou, S. (991) 459
Cohen, P., see Cohen, P.T.W. (1008) 125
Cohen, P., see MacDougall, L.K. (1010) 218
Cohen, P.T.W., Schelling, D.L., Da Cruz e Silva, O.B., Barker, H.M. and Cohen, P.
The major type-1 protein phosphatase catalytic subunits are the same gene products in rabbit skeletal muscle and rabbit liver (1008) 125
Cohen, P.T.W., see Da Cruz e Silva, E.F. (1009) 293
Cohen, S.G., Salih, E., Solomon, M., Howard, S., Chishti, S.B. and Cohen, J.B.
Reactions of 1-bromo-2-[^{14}C]pinacolone with acetylcholinesterase from *Torpedo nobiliana*. Effects of 5-trimethylammonio-2-pentanone and diisopropyl fluorophosphate (997) 167
Cohn, M.
The way it was: a commentary by (1000) 109
Cohn, M., see Hogness, D.S. (1000) 109
Cohn, M., see LoPresti, P. (998) 317
Coke, M., see Haris, P.I. (995) 160
Cola, C., Brunati, A.M., Borin, G., Ruzza, P., Calderan, A., De Castiglione, R. and Pinna, L.A.
Synthetic peptides reproducing the EGF-receptor segment homologous to the pp60$^{v\text{-}src}$ phosphoacceptor site. Phosphorylation by tyrosine protein kinases (1012) 191
Colard, O., see Audubert, F. (1002) 62
Colasanti, A., see Andreoni, A. (1014) 8
Colca, J.R., see McCroskey, M.C. (1011) 212
Cole, T.-C., Melrose, J. and Ghosh, P.
Isolation and characterisation of a neutral proteinase from the canine intervertebral disc (990) 254
Collard, K.J.
On the mechanism by which extracellular sodium depletion causes 5-hydroxytryptamine release from rat brain synaptosomes (984) 319
Collarini, E.J., Pisoni, R.L. and Christensen, H.N.
Characterization of a transport system for anionic amino acids in human fibroblast lysosomes (987) 139
Collarini, E.J., see Stewart, B.H. (987) 145
Collet, X., see Simard, G. (1001) 225
Collins, C., see Sinha, B.K. (1010) 304
Collins, D., Maxfield, F. and Huang, L.
Immunoliposomes with different acid sensitivities as probes for the cellular endocytic pathway (987) 47
Collins, J.M., Wood, S.H. and Chu, A.K.
Nucleoids, a subnuclear system capable of chain elongation (1009) 264
Collins, J.M., see Cunningham, B.A. (984) 109
Collins, P., see Fu, J.Y. (1006) 121
Collins, P.A., see Morgan, K. (979) 53
Colombini, M., see Zhang, D.-W. (991) 68
Colonna, G., see Pulcini, D. (995) 64
Colson, C., see Lobet, Y. (997) 224
Combes, D., see Ye, W.-N. (999) 86
Comfurius, P., Bevers, E.M. and Zwaal, R.F.A.
Interaction between phosphatidylserine and the isolated cytoskeleton of human blood platelets (983) 212
Comfurius, P., see Middelkoop, E. (981) 151
Comly, M.E., see Mackie, E.J.B. (1006) 219
Comper, W.D., see Bolis, S. (993) 157
Congiu Castellano, A., Castagnola, M., Burattini, E., Dell'Ariccia, M., Della Longa, S., Giovannelli, A., Durham, P.J. and Bianconi, A.
Heterogeneity of the isolated subunits of the fetal and adult human hemoglobin in solution, detected by XANES spectroscopy (996) 240
Connor, A.M., Waterhouse, P., Khokha, R. and Denhardt, D.T.
Characterization of a mouse mitogen-regulated protein/proliferin gene and its promoter: a member of the growth hormone/prolactin gene superfamily (1009) 75
Conricode, K.M. and Ochs, R.S.
Mechanism for the inhibitory and stimulatory actions of proteins on the activity of phospholipase A_2 (1003) 36
Conti, R., Ceccarini, C. and Tecce, M.F.
Thyroid hormone effect on α-fetoprotein and albumin coordinate expression by a human hepatoma cell line (1008) 315
Cook, H.W., see George, T.P. (1004) 283
Cook, H.W., see Glanville, N.T. (1004) 169
Cook, H.W., see Morash, S.C. (1004) 221
Cook, J.A., see Rogers, T.S. (1001) 169
Cooley, J.C., see Grasso, R.J. (980) 9
Cooper, D.A., Stein, J.C., Strieleman, P.J. and Bensadoun, A.
Avian adipose lipoprotein lipase: cDNA sequence and reciprocal regulation of mRNA levels in adipose and heart (1008) 92
Cooper, G.J.S., Day, A.J., Willis, A.C., Roberts, A.N., Reid, K.B.M. and Leighton, B.
Amylin and the amylin gene: structure, function and relationship to islet amyloid and to diabetes mellitus (1014) 247
Cooper, R.B., see Noy, N. (1003) 125
Coppens, A., see Middelkoop, E. (978) 241
Coremans, J.M.C.C., Van der Zwaan, J.W. and Albracht, S.P.J.
Redox behaviour of nickel in hydrogenase from *Methanobacterium thermoautotrophicum* (strain Marburg). Correlation between the nickel valence state and enzyme activity (997) 256
Corkey, B.E., see Geschwind, J.-F. (1012) 107
Corman, B., see Van der Goot, F. (979) 272
Corman, B.J., see Van der Goot, F.G. (986) 332
Cornell, B.A., Separovic, F., Thomas, D.E., Atkins, A.R. and Smith, R.

Effect of acyl chain length on the structure and motion of gramicidin A in lipid bilayers (985) 229
Cornic, G., see Hodges, M. (974) 289
Corongiu, F.P., see Masini, A. (1014) 133
Corrie, A.R., see Hubbard, J.A.M. (977) 91
Corrigall, A.V., Bhargava, M.M., Ivanetich, K.M., Ehlers, M.R.W. and Kirsch, R.E.
Site-directed inactivation of human lung acidic glutathione *S*-transferase by 1-chloro-2,4-dinitrobenzene in the absence of glutathione (991) 399
Cosgrove, D.E., Campain, J.A. and Cox, G.S.
Chorionic gonadotropin synthesis by human tumor cell lines: examination of subunit accumulation, steady-state levels of mRNA, and gene structure (1007) 44
Cottam, G.L., see Matsunaga, A. (992) 265
Cottingham, I.R., Austin, A.J. and Slabas, A.R.
Inhibition and covalent modification of rape seed (*Brassica napus*) enoyl ACP reductase by phenylglyoxal (995) 273
Cotton, T.M., see Andersson, L.A. (974) 163
Couée, I. and Tipton, K.F.
Activation of glutamate dehydrogenase by L-leucine (995) 97
Coumans, W.A., see De Groot, M.J.M. (1006) 111
Coutinho, A., see Aranda, F.J. (985) 26
Cox, A.D. and Wilkinson, S.G.
Polar lipids and fatty acids of *Pseudomonas cepacia* (1001) 60
Cox, D.J., see Abdul-Razzak, K.K. (996) 125
Cox, G.S., see Cosgrove, D.E. (1007) 44
Cragoe, Jr., E.J., see Kitazono, T. (1013) 152
Cramer, M., see Stochaj, U. (992) 385
Cramer, W.A., see Vallon, O. (975) 132
Crane, F.L., Hatefi, Y., Lester, R.L. and Widmer, C.
on 'Isolation of a quinone from beef heart mitochondria' (1000) 358
Crane, F.L.
Comments on the discovery of coenzyme Q: a commentary by (1000) 358
Crane, R.K. and Krane, S.M.
on 'On the mechanism of the intestinal absorption of sugars' (1000) 431
Crane, R.K.
Commentary by (1000) 431
Craney, C., see Birke, S. (999) 243
Crawford, N., see Crook, M. (1014) 26
Crawford, N., see Hughes, K. (981) 277
Crepaldi, G., see Baritussio, A. (1006) 19
Cress, A.P., Fraker, P.J. and Bieber, L.L.
Carnitine and acylcarnitine levels of human peripheral blood lymphocytes and mononuclear phagocytes (992) 135
Cresteil, T., see Marie, S. (1009) 221
Crevat, A., see Monti, J.-P. (1010) 210
Crevel, G., Laine, B., Sautière, P. and Galleron, C.
Isolation and characterization of DNA-binding proteins from the cyanobacterium *Synechococcus* sp. PCC 7002 (*Agmenellum quadruplicatum*) and from spinach chloroplasts (1007) 36
Crick, D.C. and Rip, J.W.
Age-associated changes in dolichol and dolichyl phosphate metabolism in the kidneys and liver of mice (1004) 180
Crielaard, W., Gabellini, N., Hellingwerf, K.J. and Konings, W.N.
Functional reconstitution of photosynthetic cyclic electron transfer in liposomes (974) 211
Crielaard, W., Hellingwerf, K.J. and Konings, W.N.
Reconstitution of electrochromically active pigment-protein complexes from *Rhodobacter sphaeroides* into liposomes (973) 205
Crissman, J.D., see Lah, T.T. (993) 63
Crljen, V. and Banfić, H.
Insulin-like growth factor I stimulates phospholipid synthesis in renal cortical slices without production of inositol phosphates (1012) 24
Croall, D.E., see McGuire, M.J. (995) 181
Crofts, A.R., see Kramer, D.M. (976) 28
Crommelin, D.J.A., see Peeters, P.A.M. (981) 269
Cronstein, B.N., Rose, F.R. and Pugliese, C.
Adenosine, a cytoprotective autocoid: effects of adenosine on neutrophil plasma membrane viscosity and chemoattractant receptor display (987) 176
Crook, M. and Crawford, N.
Electrokinetic, analytical and functional heterogeneity of circulating human platelets: separation of subpopulations by continuous flow electrophoresis after taxol stabilization (1014) 26
Crowe, J.H., McKersie, B.D. and Crowe, L.M.
Effects of free fatty acids and transition temperature on the stability of dry liposomes (979) 7
Crowe, J.H., see McKersie, B.D. (982) 156
Crowe, J.H., see Wistrom, C.A. (984) 238
Crowe, L.M., see Crowe, J.H. (979) 7
Crowe, L.M., see McKersie, B.D. (982) 156
Crump III, W.L., see Ghiselli, G. (1006) 26
Cruzeiro-Hansson, L., Ipsen, J.H. and Mouritsen, O.G.
Intrinsic molecules in lipid membranes change the lipid-domain interfacial area: cholesterol at domain interfaces (979) 166
Csiba, E., see Huebers, H.A. (991) 30
Cudd, A., see Arvinte, T. (981) 51
Cudd, A., see Arvinte, T. (981) 61
Cullis, P., see Tilcock, C. (979) 208
Cullis, P., see Tilcock, C. (986) 167
Cullis, P.R., see Eastman, S.J. (981) 178
Cullis, P.R., see Nayar, R. (986) 200
Cullum, M.E., see Bank, P.A. (990) 306
Cummings, A., Barrett, P. and Sommerville, J.
Multiple modifications in the phosphoproteins bound to stored messenger RNA in *Xenopus* oocytes (1014) 319
Cunha-Melo, J.R., see Ali, H. (1010) 88
Cunningham, B.A., Tamura-Lis, W., Lis, L.J. and Collins, J.M.
Thermodynamic properties of acyl chain and mesophase transitions for phospholipids in KSCN (984) 109
Cupo, J.F., Allen, R.A., Jesaitis, A.J. and Bokoch, G.M.
Reconstitution and characterization of the human neutrophil *N*-formyl peptide receptor and GTP binding proteins in phospholipid vesicles (982) 31
Curatola, G., see Fiorini, R. (1006) 198
Curtil, F.M., see Saulnier, J.M. (995) 285
Cusanovich, M.A., see Meyer, T.E. (975) 1
Cybulska, B., see Hervé, M. (980) 261

D

Dabach, Y., see Stein, O. (1003) 175
Dabach, Y., see Stein, O. (1006) 144
Dąbrowska, A., Terlecki, G. and Gutowicz, J.
Interaction of bovine skeletal muscle lactate dehydrogenase with liposomes. Comparison with the data for the heart enzyme (980) 357
Dąbrowska, R., see Nowak, E. (999) 289
Da Cruz e Silva, E.F. and Cohen, P.T.W.
Isolation of a cDNA likely to encode a novel Ca^{2+}-dependent/calmodulin-stimulated protein phosphatase (1009) 293
Da Cruz e Silva, O.B., see Cohen, P.T.W. (1008) 125
Daemen, T., Veninga, A., Roerdink, F.H. and Scherphof, G.L.
Conditions controlling tumor cytotoxicity of rat liver macrophages mediated by liposomal muramyl dipeptide (991) 145

Daffé, M. and Lanéelle, M.-A.
Diglycosyl phenol phthiocerol diester of *Mycobacterium leprae* (1002) 333
Daffé, M.
Further specific triglycosyl phenol phthiocerol diester from *Mycobacterium tuberculosis* (1002) 257
Dagan, A., see Nègre, A. (1006) 84
D'Agostino, L., Pignata, S., Daniele, B., Ventriglia, R., Ferrari, G., Ferraro, C., Spagnuolo, S., Lucchelli, P.E. and Mazzacca, G.
Release of diamine oxidase into plasma by glycosaminoglycans in rats (993) 228
Dahlén, S.E., see Nicolaou, K.C. (1003) 44
Dahlgren, C., Johansson, A. and Orselius, K.
Difference in hydrogen peroxide release between human neutrophils and neutrophil cytoplasts following calcium ionophore activation. A role of the subcellular granule in activation of the NADPH-oxidase in human neutrophils? (1010) 41
Dahlmann, B., Kuehn, L., Heinrich, P.C., Kirschke, H. and Wiederanders, B.
ATP-activated, high-molecular-mass proteinase-I from rat skeletal muscle is a cysteine proteinase-α_1-macroglobulin complex (991) 253
Dahlmann, B., see Kuehn, L. (991) 263
Daigle, I., see Brajtburg, J. (985) 307
Dailey, H.A., Jones, C.S. and Karr, S.W.
Interaction of free porphyrins and metalloporphyrins with mouse ferrochelatase. A model for the active site of ferrochelatase (999) 7
Daka, N.J., Sipehia, R. and Chang, T.M.S.
Enhanced oxidation of bilirubin by an immobilized tri-enzyme system of glucose oxidase, bilirubin oxidase and horseradish peroxidase (991) 487
Dalgleish, D.G., Horne, D.S. and Law, A.J.R.
Size-related differences in bovine casein micelles (991) 383
Dalton, L.R., see Wilder, R.T. (997) 65
Dalzoppo, D., see Baritussio, A. (1006) 19
Damais, C., see Ladoux, A. (1013) 55
Damjanovich, S., see Szabo Jr., G. (979) 365
Damodaran, S., see Deshpande, S.S. (998) 179
Daniele, B., see D'Agostino, L. (993) 228
Danieli, B., see Ottolina, G. (998) 173
Daniels, D., see Krüger, S. (1001) 9
Darkin, S.J. and Ralph, R.K.
A protein factor that enhances amsacrine-mediated formation of topoisomerase II-DNA complexes in murine mastocytoma cell nuclei (1007) 295
D'Arpa, P. and Liu, L.F.
Topoisomerase-targeting antitumor drugs (989) 163
Darszon, A., see Guerrero, A. (980) 109
Das, T., Sa, G. and Mukherjea, M.
Human fetal liver fatty acid binding proteins. Role on glucose-6-phosphate dehydrogenase activity (1002) 164
Dasarathy, Y. and Fanburg, B.L.
Calcium ionophore A23187 elevates angiotensin-converting enzyme in cultured bovine endothelial cells (1010) 16
Daum, G., see Szolderits, G. (986) 301
Daumas, P., see Strässle, M. (980) 305
Daumy, G.O., Merenda, J.M., McColl, A.S., Andrews, G.C., Franke, A.E., Geoghegan, K.F. and Otterness, I.G.
Isolation and characterization of biologically active murine interleukin-1α derived from expression of a synthetic gene in *Escherichia coli* (998) 32
Dauphin, G., see Delort, A.-M. (1013) 11
D'Auria, G., see Barbato, G. (991) 324
Daveloose, D., see Christon, R. (980) 77
Davi, G., see Ciabattoni, G. (992) 66
Davidsen, O., see Gliemann, J. (980) 326
Davie, J.R., see Nickel, B.E. (1007) 23
Davies, H.C., see Bolgiano, B. (973) 227
Davies, M., see Thomas, G.J. (990) 246
Davies, S.-A., Houslay, M.D. and Wakelam, M.J.O.
The effects of p21$^{N\text{-}ras}$ expression in NIH-3T3 cells upon cyclic AMP metabolism (1013) 173
Davis, B.H. and Vucic, A.
Modulation of vitamin A metabolism during hepatic and intestinal cell culture (1010) 318
Davis, J.H., see Huschilt, J.C. (979) 139
Davis, P.D., see Williamson, M.P. (997) 9
Dawes, N.J., see McCormack, J.G. (973) 420
Dawicki, D.D., see Berry, S. (1012) 46
Dawicki, D.D., see Lineberger, B. (1012) 36
Dawson, R.M.C.
This isolation of a new complex lipid: triphosphoinositide from ox brain. A commentary by (1000) 459
Dawson, R.M.C., see Dittmer, J.C. (1000) 459
Day, A.J., see Cooper, G.J.S. (1014) 247
Day, N.A., see Lah, T.T. (993) 63
De, N., see Schweizer, M.P. (1008) 293
De Almeida, E.T. and Ioneda, T.
Composition and toxicity of lipids from *Rhodococcus rhodochrous* grown on medium containing galactose, glucose or mannose (1005) 45
Dean, R.T. and Schnebli, H.P.
Control of exogenous proteinases and their inhibitors at the macrophage cell surface (992) 174
Dean, R.T., see Thomas, S.M. (1002) 189
Deana, R., Ruzzene, M., Doni, M.G., Zoccarato, F. and Alexandre, A.
Cyclic GMP and nitroprusside inhibit the activation of human platelets by fluoroaluminate (1014) 203
Deana, R., see Francesconi, M.A. (999) 163
De Arriaga, D., Busto, F., Del Valle, P. and Soler, J.
A kinetic study of the pH effect on the allosteric properties of pyruvate kinase from *Phycomyces blakesleeanus* (998) 221
Deber, C.M., see Fraser, P.E. (983) 23
De Bie, M., see Biermans, W. (974) 74
De Blasi, A., see Fratelli, M. (1012) 178
De Boer, P., see Bosch, D. (979) 69
De Boland, A.R., see Drittanti, L. (1014) 112
De Boland, A.R., see Drittanti, L.N. (1012) 16
De Boo, R., see Schuddemat, J. (1010) 191
Debouzy, J.C., see Hervé, M. (980) 261
De Caro, A.M., Adrich, Z., Fournet, B., Capon, C., Bonicel, J.J., De Caro, J.D. and Rovery, M.
N-terminal sequence extension in the glycosylated forms of human pancreatic stone protein. The 5-oxoproline N-terminal chain is *O*-glycosylated on the 5th amino acid resia (994) 281
De Caro, J.D., see De Caro, A.M. (994) 281
De Castiglione, R., see Cola, C. (1012) 191
De Cock, H., Meeldijk, J., Overduin, P., Verkleij, A. and Tommassen, J.
Membrane biogenesis in *Escherichia coli*: effects of a *secA* mutation (985) 313
De Coninck, S., see De Duve, C. (1000) 317
De Duve, C., Beaufay, H., Jacques, P., Rahman-Li, Y., Sellinger, O.Z., Wattiaux, R. and De Coninck, S.
on 'Intracellular Localization of Catalase and of Some Oxidases in Rat Liver' (1000) 317
De Duve, C.
Commentary by (1000) 317
Deems, R.A., see Fanni, T. (1004) 134
De Gier, J., see De Kroon, A.I.P.M. (981) 371
Degli Esposti, M.
Prediction and comparison of the haem-binding sites in membrane haemoproteins (977) 249

De Groot, M.J.M., Willemsen, P.H.M., Coumans, W.A., Van Bilsen, M. and Van der Vusse, G.J.
Lactate-induced stimulation of myocardial triacylglycerol turnover (1006) 111
De Haas, G.H., see Gargouri, Y. (1006) 137
Dei, T., see Kikuchi, H. (1009) 283
Deierkauf, M., see Elferink, J.G.R. (1013) 247
Deinum, G., Aartsma, T.J., Van Grondelle, R. and Amesz, J.
Singlet–singlet excitation annihilation measurements on the antenna of *Rhodospirillum rubrum* between 300 and 4 K (976) 63
Dekker, H.L., see Harvey, P.J. (994) 59
Dekker, J., see Van Beurden-Lamers, W.M.O. (990) 232
Dekker, J.P., see Boekema, E.J. (974) 81
Dekker, J.P., see Gerken, S. (977) 52
Dekker, J.P., see Meyer, B. (974) 36
De Korte, D., see Marijnen, Y.M.T. (1012) 148
De Kouchkovsky, Y., see Bizouarn, T. (974) 104
De Kroon, A.I.P.M., De Gier, J. and De Kruijff, B.
Association of synthetic model peptides with phospholipid vesicles induced by a membrane potential (981) 371
De Kruijff, B., see Killian, J.A. (978) 341
De Kruijff, B., see De Kroon, A.I.P.M. (981) 371
De Kruijff, B., see Sankaram, M.B. (986) 315
De la Chapelle, A., see Bianchi, N.O. (1007) 350
Delain, E., see Pochon, F. (996) 132
Delaunay, J., see Wajcman, H. (998) 25
Delbart, C., see Martin-Nizard, F. (1005) 201
Del Corso, A., Barsacchi, D., Osman, A.M., Mohamed, A.S., Tozzi, M.G., Camici, M. and Mura, U.
Lens aldo-keto reductase of *Camelus dromedarius*: purification and properties (993) 116
Dellacha, J.M., see Robetto, E.J. (1013) 223
Della Greca, M., Monaco, P., Pinto, G., Pollio, A. and Previtera, L.
Lipid composition of the acidophilic alga *Dunaliella acidophila*. II. Molecular species of galactolipids (1004) 271
Della Longa, S., see Congiu Castellano, A. (996) 240
Della Pietra, G., see Pulcini, D. (995) 64
Dell'Ariccia, M., see Congiu Castellano, A. (996) 240
Delnomdedieu, M., Boudou, A., Desmazès, J.-P. and Georgescauld, D.
Interaction of mercury chloride with the primary amine group of model membranes containing phosphatidylserine and phosphatidylethanolamine (986) 191
De Loecker, W., Delport, P.H. and Cheng, N.
Effects of pulsed electromagnetic fields on rat skin metabolism (982) 9
Delort, A.-M., Dauphin, G., Guyot, J. and Jeminet, G.
Study by NMR of the mode of action of monensin on *Streptococcus faecalis* de-energized and energized cells (1013) 11
Delport, P.H., see De Loecker, W. (982) 9
Del Río, J.A., see Acosta, M. (996) 7
Delrot, S., see Gallet, O. (978) 56
Delrot, S., see Lemoine, R. (978) 65
DeLuca, H.F., see Inaba, M. (1010) 20
DeLuca, H.F., see Renstrom, B. (998) 69
Del Valle, P., see De Arriaga, D. (998) 221
Del Vecchio, R.L. and Pilch, P.F.
Insulin stimulates the tyrosine phosphorylation of a 165 kDa protein that is associated with microsomal membranes of rat adipocytes (986) 41
Demacker, P.N.M., see Mol, M.J.T.M. (1003) 167
De Man, B.M., see Van den Oetelaar, P.J.M. (995) 82
Demandre, C., see Justin, A.M. (1005) 51
Demant, E.J.F., see Afzelius, P. (979) 231
De Marco, A., Petros, A.M., Llinás, M., Kaptein, R. and Boelens, R.
Ligand-binding effects on the kringle 4 domain from human plasminogen: a study by laser photo-CIDNP ^{1}H-NMR spectroscopy (994) 121
DeMartino, G.N., see McGuire, M.J. (995) 181
Demchenko, A.P., Rusyn, O.I. and Saburova, E.A.
Kinetics of the lactate dehydrogenase reaction in high-viscosity media (998) 196
De Meis, L.
Role of water in the energy of hydrolysis of phosphate compounds – energy transduction in biological membranes (973) 333
De Meis, L. and Sorenson, M.M.
ATP regulation of calcium transport in back-inhibited sarcoplasmic reticulum vesicles (984) 373
Demel, R.A., see Peeters, R.A. (1002) 8
Demel, R.A., see Van Amerongen, A. (1004) 36
De Mello, W.C.
Effect of isoproterenol and 3-isobutyl-1-methylxanthine on junctional conductance in heart cell pairs (1012) 291
Demetriou, D.M., see Ghanotakis, D.F. (974) 44
De Meutter, J., see Goormaghtigh, E. (1006) 147
Dempsey, T., see Tilcock, C. (979) 208
Demuth, H.-U., Schönlein, C. and Barth, A.
Potent and selective inactivation of proteinases with *N*-peptidyl-*O*-acylhydroxylamines (996) 19
Den Breejen, E.J.S., see Marijnen, Y.M.T. (1012) 148
Den Breejen, J.N., Batenburg, J.J. and Van Golde, L.M.G.
The species of acyl-CoA in subcellular fractions of type II cells isolated from adult rat lung and their incorporation into phosphatidic acid (1002) 277
Dencher, N.A., see Fimmel, S. (978) 231
Den Dulk, H., see Tasseron-de Jong, J. (1008) 62
Den Dulk, H., see Tasseron-de Jong, J.G. (1007) 215
Denhardt, D.T., see Connor, A.M. (1009) 75
Denis-Pouxviel, C., see Gauthier, T. (975) 231
Dennis, E.A., see Fanni, T. (1004) 134
Denton, M.L., see Abdul-Razzak, K.K. (996) 125
Denton, R.M., see Rutter, G.A. (1014) 263
De Palma, A., see Bisaccia, F. (977) 171
De Paula, J.C., see Ghanotakis, D.F. (974) 44
DePierre, J.W., see Nässberger, L. (984) 365
De Pinto, V., Benz, R., Caggese, C. and Palmieri, F.
Characterization of the mitochondrial porin from *Drosophila melanogaster* (987) 1
De Pont, J.J.H.H.M., see Kuijpers, G.A.J. (984) 63
De Pont, J.J.H.H.M., see Kuijpers, G.A.J. (984) 71
De Pont, J.J.H.H.M., see Schuurmans Stekhoven, F.M.A.H. (982) 103
De Pont, J.J.H.H.M., see Van der Hijden, H.T.W.M. (983) 142
De Pont, J.J.H.H.M., see Van der Hijden, H.T.W.M. (987) 75
De Prisco, R., see Sorrentino, S. (998) 97
De Renzis, G., see Walter, P. (1012) 219
Dergunov, A.D., Shuvaev, V.V. and Perova, N.V.
Topo-dynamic characteristics of human plasma VLDL apolipoproteins and efficiency of triacylglycerol hydrolysis by lipoprotein lipase (1005) 79
De Rosa, M., see Barbato, G. (991) 324
De Rosa, M., see Lanzotti, V. (1001) 31
De Rosa, M., see Lanzotti, V. (1002) 398
De Rosa, M., see Lanzotti, V. (1004) 44
Deschodt-Lanckman, M., see Pauwels, S. (996) 82
Deshmukh, G.D., see Shimamoto, C. (991) 284
Deshpande, S.S. and Damodaran, S.
Heat-induced conformational changes in phaseolin and its relation to proteolysis (998) 179
Desideri, A., see Carelli, V. (991) 25
Desideri, A., see Marcocci, L. (979) 99
Desmazès, J.-P., see Delnomdedieu, M. (986) 191
De Smedt, H., Van Den Bosch, L., Geuns, J. and Borghgraef, R.
Polyamine transport systems in the LLC-PK$_1$ renal epithelial established cell line (1012) 171
De Smedt, H., see Heirwegh, K.P.M. (995) 151
De Smedt, H., see Van den Bosch, L. (979) 91

De Smet, M., see Slooten, L. (973) 272
Deuticke, B., Henseleit, U., Haest, C.W.M., Heller, K.B. and Dubbelman, T.M.A.R.
Enhancement of transbilayer mobility of a membrane lipid probe accompanies formation of membrane leaks during photodynamic treatment of erythrocytes (982) 53
Deuticke, B., see Bröring, K. (986) 321
Devi, K.R.G., Chan, Y.-L. and Wool, I.G.
The primary structure of rat ribosomal protein S4 (1008) 258
DeVries, A.L., see Cheng, C.-H.C. (997) 55
Dewey, W.C., see Wong, R.S.L. (1007) 224
Dexter, T.M., see Whetton, A.D. (989) 111
Deyev, A.I., see Babizhayev, M.A. (1004) 124
Díaz, E., see Chávez, E. (986) 27
Dicken, M.P., see McMillan, R.M. (1005) 170
Dickson, D.P.E., see Ward, R.J. (993) 131
Dickson, I.R., Walls, J. and Webb, S.
Vitamin A and bone formation. Different responses to retinol and retinoic acid of chick bone cells in organ culture (1013) 254
Dieckhoff, J., see Risse, G. (994) 258
Dieckhoff, J., see Stochaj, U. (992) 385
Diede, H.E., see Stremmel, W. (1013) 218
Diede, H.E., see Stremmel, W. (1014) 108
Diederichs, K., see Welte, W. (984) 193
Diedrich, D.F., see Wyse, J.W. (979) 127
Dierks, T., see Indiveri, C. (977) 194
Dietz, K.-J., Martinoia, E. and Heber, U.
Mobilisation of vacuolar amino acids in leaf cells as affected by ATP and the level of cytosolic amino acids: ATP regulates but appears not to energize vacuolar amino-acid release (984) 57
Dietz, T.H., see Hagar, A.F. (1005) 162
Di Eugenio, R., see Cifone, M.G. (1011) 25
Di Giambattista, M., see Nyssen, E. (1009) 39
Di Giulio, A., see Marcocci, L. (979) 99
Di Giulio, A., see Mossa, G. (986) 310
Di Ilio, C., see Arduini, A. (999) 203
Di Julio, D., Hinds, T.R. and Vincenzi, F.F.
Inhibition of basal and calmodulin-activated Ca^{2+}-pump ATPase by fractionated compound 48/80 (981) 337
Di Lisa, F., Menabò, R., Miotto, G., Bobyleva-Guarriero, V. and Siliprandi, N.
Ca^{2+}-mediated action of long-chain acyl-CoA on liver mitochondria energy-linked processes (973) 185
Dillingham, E.O., Lasslo, A., Carter-Burks, G., Bond, S.E. and Gollamudi, R.
Relationships between chemical structure and inhibition of ADP-stimulated human thrombocyte release of serotonin and platelet factor 4 (990) 128
Dillingham, E.O., see Petrusewicz, J. (983) 161
Dillon, P.F., see Clark, J.F. (1014) 235
Dimaline, R., see Pauwels, S. (996) 82
Dimaline, R., see Thwaites, D.T. (999) 217
Di Mascio, P., Wefers, H., Do-Thi, H.-P., Lafleur, M.V.M. and Sies, H.
Singlet molecular oxygen causes loss of biological activity in plasmid and bacteriophage DNA and induces single-strand breaks (1007) 151
Dimicoli, J.-L., see Bieth, J.G. (994) 64
Dimitrova, E.A., see Atanasov, B.P. (998) 80
Dinarello, C.A., see Andrews, H.J. (1012) 128
Dini, L., see Mossa, G. (986) 310
Dinno, M.A., see Carrasquer, G. (982) 73
Dinno, M.A., see Holloman, T.L. (980) 367
Dinota, A., see Bolognesi, A. (993) 287
Di Pietro, A., see Falson, P. (975) 119
DiPolo, R., Beaugé, L. and Rojas, H.
In dialyzed squid axons Ca_i^{2+} activates Ca_o^{2+}–Na_i^+ and Na_o^+–Na_i^+ exchanges in the absence of Ca chelating agents (978) 328
DiPolo, R., see Caputo, C. (986) 250
Dirrig, S., see Bieth, J.G. (994) 64
Disalvo, E.A., see Bakás, L.S. (979) 352
D'Ischia, M., Napolitano, A. and Prota, G.
Psoralens sensitize glutathione photooxidation in vitro (993) 143
D'Ischia, M., see Palumbo, A. (990) 297
Dittmer, J.C. and Dawson, R.M.C.
on 'The isolation of a new complex lipid: triphosphoinositide from ox brain' (1000) 459
Dixit, R.R., see Lala, A.K. (978) 333
Dixon, J.L., Battini, R., Ferrari, S., Redman, C.M. and Banerjee, D.
Expression and secretion of chicken apolipoprotein AI in transfected COS cells (1009) 47
Do-Thi, H.-P., see Di Mascio, P. (1007) 151
Dobbs, J.C., see Balasubramaniam, A. (997) 176
Dobrowolska, G., Meggio, F., Marchiori, F. and Pinna, L.A.
Specificity determinants of maize casein kinase-IIB are related to but distinct from those of rat liver casein kinase-2 (1010) 274
Doctor, B.P., see Holley, R.W. (1000) 99
Dodson, R.W., see Berkow, R.L. (997) 292
Doerfler, W., see Bartnik, E. (1007) 228
Doetsch, P.W., McCray, Jr., W.H. and Valenzuela, M.R.L.
Partial purification and characterization of an endonuclease from spinach that cleaves ultraviolet light-damaged duplex DNA (1007) 309
Dogliotti, E., see Palombo, F. (1009) 251
Dolla, A., Guerlesquin, F., Bruschi, M., Guigliarelli, B., Asso, M., Bertrand, P. and Gayda, J.-P.
Cytochrome c_3-ferredoxin I covalent complex: evidence for an intramolecular electron exchange in cytochrome c_3 (975) 395
Dollery, C.T., see Barrow, S.E. (993) 121
Dombrádi, V., see Bakó, É. (1013) 300
Domingo, N., see Martigne, M. (979) 341
Domínguez, A., see Moran, A. (990) 288
Donath, E., see Engel, J. (985) 111
Doncaster, H.D., Adcock, M.D. and Leegood, R.C.
Regulation of photosynthesis in leaves of C_4 plants following a transition from high to low light (973) 176
Donella-Deana, A., see Francesconi, M.A. (999) 163
Doni, M.G., see Deana, R. (1014) 203
Donnelly, T.M., see Noy, N. (1003) 125
Donoghue, D.J., see Hannink, M. (989) 1
Donoso, P. and Hidalgo, C.
Sodium–calcium exchange in transverse tubules isolated from frog skeletal muscle (978) 8
Dordick, J.S., see Schmall, M.W. (999) 267
Dormer, R.L., see Doughney, C. (1010) 352
Dörnemann, D., see Kotzabasis, K. (977) 309
Doroshow, J.H., see Akman, S.A. (1009) 70
Doroshow, J.H., see Burke, T.G. (982) 123
Dosil, M., see Bustelo, X.R. (977) 341
Dou, D., Inagaki, K., Kita, K., Ohshima, A., Hiraoka, N., Kishimoto, N., Sugio, T. and Tano, T.
Restriction endonuclease *Afa*I from *Acidiphilium facilis*, a new isoschizomer of *Rsa*I: purification and properties (1009) 83
Douen, A.G. and Jones, M.N.
Insulin processing and signal transduction in rat adipocytes (1010) 363
Doughney, C., Pedersen, P.S., McPherson, M.A. and Dormer, R.L.
Formation of inositol polyphosphates in cultured human sweat duct cells in response to cholinergic stimulation (1010) 352
Douste-Blazy, L., see Maret, A. (996) 254
Douste-Blazy, L., see Radom, J. (1005) 130
Douste-Blazy, L., see Simard, G. (1001) 225
Douzhenkova, I.V., see Asryants, R.A. (997) 159
Downing, D.T., see Wertz, P.W. (1001) 115
Downing, D.T., see Wertz, P.W. (1002) 213

Doyle, J.W. and Kem, W.R.
Binding of a radiolabeled sea anemone cytolysin to erythrocyte membranes (987) 181
Drachev, A.L., Drachev, L.A., Kaulen, A.D., Khitrina, L.V., Skulachev, V.P., Lepnev, G.P. and Chekulaeva, L.N.
Anion-dependent transition of two acidic forms of bacteriorhodopsin (976) 190
Drachev, L.A., Kaurov, B.S., Mamedov, M.D., Mulkidjanian, A.Y., Semenov, A.Y., Shinkarev, V.P., Skulachev, V.P. and Verkhovsky, M.I.
Flash-induced electrogenic events in the photosynthetic reaction center and bc_1 complexes of *Rhodobacter sphaeroides* chromatophores (973) 189
Drachev, L.A., see Drachev, A.L. (976) 190
Draget, K., see Skjeldal, L. (995) 59
Drakenberg, T., see Lundberg, P. (999) 12
Drapers, J.A.G., see Groen, A.K. (1006) 179
Dratz, E.A., see Ross, P.E. (991) 134
Draye, J.-P., see Veitch, K. (1006) 335
Dressler, S., see Korbmacher, C. (985) 67
Drews, G., see Tadros, M.H. (976) 161
Drittanti, L., De Boland, A.R. and Boland, R.
Modulation of DNA synthesis in cultured muscle cells by 1,25-dihydroxyvitamin D-3 (1014) 112
Drittanti, L.N., Boland, R.L. and De Boland, A.R.
Induction of specific proteins in cultured skeletal muscle cells by 1,25-dihydroxyvitamin D-3 (1012) 16
Drobik, C., see Reymann, A. (1011) 158
Drøhse, H.B. and Foltmann, B.
Specificity of milk-clotting enzymes towards bovine κ-casein (995) 221
Droppa, M., see Rózsa, Z. (973) 350
Druckmann, S., Gabizon, A. and Barenholz, Y.
Separation of liposome-associated doxorubicin from non-liposome-associated doxorubicin in human plasma: implications for pharmacokinetic studies (980) 381
Dryden, D.T.F. and Pain, R.H.
Assignment of the heterogeneous static and time-resolved tryptophan fluorescence of 3-phosphoglycerate kinase (997) 313
D'souza, A., see Puri, C.P. (1011) 176
Duanmu, C., see Bai, R.-l. (994) 12
Dubbelman, T.M.A.R., see Boegheim, J.P.J. (1012) 237
Dubbelman, T.M.A.R., see Boegheim, J.P.J. (979) 215
Dubbelman, T.M.A.R., see Deuticke, B. (982) 53
Dubbelman, T.M.A.R., see Van der Zee, J. (980) 175
Dubois, J.E., see Meulendijks, G.H.W.M. (979) 321
Dubord, C., see Roques, P. (1009) 99
Duclohier, H., Molle, G. and Spach, G.
The influence of the trichorzianin C-terminal residues on the ion channel conductance in lipid bilayers (987) 133
Duclos, M.-C., see Saulnier, J.M. (995) 285
Dudeja, P.K., see Brasitus, T.A. (979) 177
Dudeja, P.K., see Halline, A.G. (990) 280
Dudeja, P.K., see Halline, A.G. (992) 106
Duerre, J.A. and Gordon, R.K.
Characterization of the binding of *S*-adenosyl-L-methionine to plasma membranes of HL-60 promyelocytic leukemia cells (985) 211
Dufourcq, J., see Lafleur, M. (980) 85
Dugan, R.E.
Studies on the inactivation of β-hydroxy-β-methylglutaryl-CoA reductase by (*S*)-(4-bromo-2,3-dioxobutyl)-CoA (998) 91
Duhe, R.J. and Selman, B.R.
Studies on the heterogeneity of the soluble chloroplast coupling factor 1: the formation of ε-deficient isozymes (974) 294
Duhm, J., see Engelmann, B. (981) 36
Dumora, C., Lacoste, A.-M. and Cassaigne, A.
Phosphonoacetaldehyde hydrolase from *Pseudomonas aeruginosa*: purification properties and comparison with *Bacillus cereus* enzyme (997) 193
Duncan, R., see Flanagan, P.A. (993) 83
Dunn, F., see Ma, L.D. (978) 283
Duperret, S.M., see Wolfe, F.H. (998) 236
Dupont, Y., see Moutin, M.-J. (984) 289
Durand, S., see Simard, G. (1001) 225
Durham, P.J., see Congiu Castellano, A. (996) 240
Dusre, L., see Sinha, B.K. (1010) 304
Dussaule, J.-C., Béa, M.-L., Baud, L., Ronco, P., Chansel, D., Helwig, J.-J. and Ardaillou, R.
Effects of bradykinin on prostaglandin synthesis and cytosolic calcium in rabbit subcultured renal cortical smooth muscle cells (1005) 34
Duysens, L.N.M., Huiskamp, W.J., Vos, J.J. and Van der Hart, J.M. on 'Reversible changes in bacteriochlorophyll in purple bacteria upon illumination' (1000) 395
Duysens, L.N.M.
The study of reaction centers and of the primary and associated reactions of photosynthesis by means absorption difference spectrophotometry: a commentary by (1000) 395
Dworzański, J.P., see Stępień, K.B. (997) 49
Dwyer, N.K., see Mackie, E.J.B. (1006) 219
Dyatkina, N.B., see Chinchaladze, D.Z. (1008) 113
Dyr, J.E., Blombäck, B., Hessel, B. and Kornalík, F.
Conversion of fibrinogen to fibrin induced by preferential release of fibrinopeptide B (990) 18

E

Easom, R.A., see Turk, J. (1001) 16
East, J.M., see Munkonge, F. (979) 113
Eastman, S.J., Wilschut, J., Cullis, P.R. and Hope, M.J.
Intervesicular exchange of lipids with weak acid and weak base characteristics: influence of transmembrane pH gradients (981) 178
Eaton-Rye, J.J. and Murata, N.
Evidence that the amino-terminus of the 33 kDa extrinsic protein is required for binding to the Photosystem II complex (977) 219
Ebata, H., see Jurkowitz-Alexander, M. (1002) 203
Eberle, K., see Srinivasan, S.R. (1006) 159
Ebisuno, S., see Nakanishi, Y. (996) 209
Eckardt, A., see Niewiarowski, S. (983) 91
Edenborough, M.S., see Bradshaw, J.P. (987) 104
Edenborough, M.S., see Bradshaw, J.P. (987) 111
Edenharder, R., Pfützner, A. and Hammann, R.
Characterization of NAD-dependent 3α- and 3β-hydroxysteroid dehydrogenase and of NADP-dependent 7β-hydroxysteroid dehydrogenase from *Peptostreptococcus productus* (1004) 230
Edenharder, R., Pfützner, M. and Hammann, R.
NADP-dependent 3β-, 7α- and 7β-hydroxysteroid dehydrogenase activities from a lecithinase-lipase-negative *Clostridium* species 25.11.c (1002) 37
Edgar, A., see Koffer, A. (982) 295
Edmunds, T., see Wolfe, F.H. (998) 236
Edwards, P.A., see Levin, M.S. (1003) 293
Eerdmans, M.E., see Meryhew, N.L. (991) 470
Egawa, T. and Masuda, T.
Electric charge distribution in proteins and ionic strength dependence of reaction rate (995) 207
Egbers, P., see Groen, A.K. (1006) 179

Egberts, J., Sloot, H. and Mazure, A.
Minimal surface tension, squeeze-out and transition temperatures of binary mixtures of dipalmitoylphosphatidylcholine and unsaturated phospholipids (1002) 109
Egner, U., Müller-Fahrnow, A., Herbst, R. and Saenger, W.
Crystal structure of a zwitterionic detergent: *n*-octyl-2-hydroxyethylsulfoxide (992) 404
Egret-Charlier, M., see Privat, J.-P. (979) 257
Eguchi, H., Wakagi, T. and Oshima, T.
A highly stable NADP-dependent isocitrate dehydrogenase from *Thermus thermophilus* HB8: purification and general properties (990) 133
Ehlers, M.R.W., see Corrigall, A.V. (991) 399
Ehnholm, C.P., see Clay, M.A. (1002) 173
Ehrenberg, B., see Gross, E. (983) 118
Eichberg, J., see Bonnel, S.I. (1005) 289
Eidelman, O. and Cabantchik, Z.I.
Continuous monitoring of transport by fluorescence on cells and vesicles (988) 319
Einarsson, K., see Berglund, L. (1002) 382
Eisenthal, R., Game, S. and Holman, G.D.
Specificity and kinetics of hexose transport in *Trypanosoma brucei* (985) 81
Eitan, B., see Peled, Y. (1003) 246
Eiteman, M.A. and Gainer, J.L.
The effect of free-volume changes on partitioning in magnesium sulfate-poly(ethylene glycol) aqueous two-phase systems (992) 125
Eker, A.P.M., Hessels, J.K.C. and Meerwaldt, R.
Characterization of an 8-hydroxy-5-deazaflavin : NADPH oxidoreductase from *Streptomyces griseus* (990) 80
Eklund, K.K., see Salonen, I.S. (982) 205
Ekman, S., see Slotte, J.P. (985) 90
El-Omari, B., see Laplaud, P.M. (1005) 143
El Alaoui-Talibi, Z. and Moravec, J.
Carnitine transport and exogenous palmitate oxidation in chronically volume-overloaded rat hearts (1003) 109
Elders, M.J., see Hu, L.-M. (1013) 294
Electricwala, A.
Lectin affinity bioassay: an assay method for glycoprotein enzyme (990) 53
Elferink, J.G.R. and Deierkauf, M.
Exocytotic enzyme release from rabbit polymorphonuclear leukocytes after treatment with fluoride and calcium (1013) 247
Elgavish, G.A., see Levy, A. (991) 97
ElGendy, H., see Hausman, R.E. (1013) 92
Elger, W.A.G., see Puri, C.P. (1011) 176
Eling, W.M.C., see Peeters, P.A.M. (981) 269
Ellar, D.J., see Haider, M.Z. (978) 216
Elliott, A.A., Elliott, J.R. and Haydon, D.A.
The effects of homologous series of anaesthetics on a resting potassium conductance of the squid giant axon (978) 337
Elliott, J.R. and Haydon, D.A.
The actions of neutral anaesthetics on ion conductances of nerve membranes (988) 257
Elliott, J.R., see Elliott, A.A. (978) 337
Elsässer, K., see Risse, G. (994) 258
Elsing, C., see Stremmel, W. (1014) 108
Elsner, R. and Ziegler, K.
Determination of the apparent functional molecular mass of the hepatocellular sodium-dependent taurocholate transporter by radiation inactivation (983) 113
Elworthy, P. and Hitchcock, E.
Polyamine levels in red blood cells from patient groups of different sex and age (993) 212
Emmons, T., see Takemoto, L. (995) 259
Emrie, P.A., Shannon, J.M., Mason, R.J. and Fisher, J.H.
cDNA and deduced amino acid sequence for the rat hydrophobic pulmonary surfactant-associated protein, SP-B (994) 215
Enami, I., Kamino, K., Shen, J.-R., Satoh, K. and Katoh, S.
Isolation and characterization of Photosystem II complexes which lack light-harvesting chlorophyll *a/b* proteins but retain three extrinsic proteins related to oxygen evolution from spinach (977) 33
Enami, I., Miyaoka, T., Mochizuki, Y., Shen, J.-R., Satoh, K. and Katoh, S.
Nearest neighbor relationships among constituent proteins of oxygen-evolving Photosystem II membranes: binding and function of the extrinsic 33 kDa protein (973) 35
Enderle-Schmitt, U., Neuhaus, C. and Aumüller, G.
Solubilization of nuclear steroid 5α-reductase from rat ventral prostate (987) 21
Endo, H., see Tanuma, S. (1010) 246
Endo, H., see Ueno, T. (1009) 27
Endo, H., see Yamamoto, M. (1008) 322
Engblom, A.C., see Isomaa, B. (998) 131
Engel, J., Donath, E., Ermakov, Y.A., Meyer, H.W. and Richter, W.
Hyperosmotic relaxation lysis of chromaffin granules is caused by interactions between the granular membrane and intragranular vesicles (985) 111
Engelborghs, Y., see Audenaert, R. (996) 110
Engelmann, B. and Duhm, J.
Distinction of two components of passive Ca^{2+} transport into human erythrocytes by Ca^{2+} entry blockers (981) 36
Englander, E. and Moav, B.
Cloning and characterization of a histone gene family in *Tilapia* fish (1007) 277
Entsch, B. and Ballou, D.P.
Purification, properties, and oxygen reactivity of *p*-hydroxybenzoate hydroxylase from *Pseudomonas aeruginosa* (999) 313
Epand, R.M., see Boscoboinik, D. (1014) 53
Epstein, W.L., see Kikuchi, M. (991) 19
Erdődi, F., Rokolya, A., Bárány, M. and Bárány, K.
Dephosphorylation of distinct sites in myosin light chain by two types of phosphatase in aortic smooth muscle (1011) 67
Erdődi, F., see Bakó, É. (1013) 300
Erickson, R.W., see Allen, R.A. (991) 123
Eriksson, H., see Hagenfeldt, Y. (1002) 84
Eriksson, S., see Lindmark, B. (997) 90
Ermakov, Y.A., see Engel, J. (985) 111
Ermisch, A., Brust, P. and Brandsch, M.
β-Casomorphins alter the intestinal accumulation of L-leucine (982) 79
Ernster, L., see Lee, C.-P. (1000) 371
Ernster, L., see Lee, C.P. (1000) 371
Ervasti, J.M., Mickelson, J.R., Lewis, S.M., Thomas, D.D. and Louis, C.F.
An electron paramagnetic resonance study of skeletal muscle membrane fluidity in malignant hyperthermia (986) 70
Esfahani, M., see Bigler, R.D. (1011) 102
Eskin, S.G., see Nollert, M.U. (1005) 72
Esmann, M., Hankovszky, H.O., Hideg, K. and Marsh, D.
A novel spin-label for study of membrane protein rotational diffusion using saturation transfer electron spin resonance. Application to selectively labelled Class I and Class II -SH groups of the shark rectal gland Na^+/K^+-ATPase (978) 209
Esterbauer, H., see Mischak, H. (990) 1
Estes, J.E., see Gershman, L.C. (995) 109
Etienne, J., see Chajek-Shaul, T. (1001) 316
Evans, L.A. and Levy, J.A.
Characteristics of HIV infection and pathogenesis (989) 237
Evans, M.C.W., see Hubbard, J.A.M. (977) 91
Evelo, R.G., Styring, S., Rutherford, A.W. and Hoff, A.J.
EPR relaxation measurements of Photosystem II reaction centers: influence of S-state oxidation and temperature (973) 428
Even, V., see Christon, R. (980) 77
Evers, M., see Bruinenberg, P.G. (1008) 157

Evtushenko, G.N., see Kabanov, A.V. (996) 147
Ewart, G.D. and Smith, G.D.
Immunochemical analysis of the soluble hydrogenase from the cyanobacterium *Anabaena cylindrica* (997) 83

F

Faaland, C.A., see Abidi, T.F. (992) 362
Fabian, M. and Malmström, B.G.
The effect of pH changes on the optical spectrum of oxidised cytochrome oxidase (973) 414
Fabregat, I., see Roncero, C. (1012) 320
Fahrenholz, F., see Raida, M. (980) 291
Fain, J.N., see Lee, H.-M. (1013) 73
Fain, J.N., see Pittner, R.A. (1010) 227
Fairbanks, G., see Raval, P.J. (983) 230
Fairbanks, G., see Sheerin, H.E. (983) 65
Faivre, J.-F. and Findlay, I.
Effects of tolbutamide, glibenclamide and diazoxide upon action potentials recorded from rat ventricular muscle (984) 1
Falasca, A.I., see Bolognesi, A. (993) 287
Falbrede, J., see Stremmel, W. (1014) 108
Falson, P., Di Pietro, A., Jault, J.-M., Gautheron, D.C. and Boutry, M.
Purification from a yeast mutant of mitochondrial F_1 with modified β-subunit. High affinity for nucleotides and high negative cooperativity of ATPase activity (975) 119
Famulski, K.S., see Wrzosek, A. (986) 263
Fanburg, B.L., see Dasarathy, Y. (1010) 16
Fanelli, R., see Chiabrando, C. (1006) 167
Fanni, T., Deems, R.A. and Dennis, E.A.
^{18}O isotope exchange experiments on phospholipase A_2 determined by ^{13}C-NMR: monomeric phosphatidylcholine and micellar phosphatidylethanolamine substrates (1004) 134
Fantone, J.C., see Brieland, J.K. (978) 191
Farina, B., see Quesada, P. (1007) 167
Farnararo, M., see Vasta, V. (1011) 165
Farnarier, C., see Lejeune, P.-J. (990) 122
Farndale, R.W., see Sandy, J.R. (1010) 265
Fas, N., see Xian-Xuan, C. (992) 160
Fasold, H., see Raida, M. (980) 291
Fasold, H., see Ziegler, K. (980) 161
Fassina, G., see Ferrari, N. (1007) 30
Fasulo, J.M., see Robins, S.J. (1004) 327
Faucon, J.-F., see Lafleur, M. (980) 85
Fauler, J., Sielhorst, G. and Frölich, J.C.
Platelet-activating factor induces the production of leukotrienes by human monocytes (1013) 80
Favilli, F., see Vincenzini, M.T. (987) 29
Favre, G., Blancy, E., Tournier, J.-F. and Soula, G.
Proliferative effect of high density lipoprotein (HDL) and HDL fractions ($HDL_{1,2}$, HDL_3) on virus transformed lymphoblastoid cells (1013) 118
Fay, P.J. and Walker, F.J.
Inactivation of human factor VIII by activated protein C: evidence that the factor VIII light chain contains the activated protein C binding site (994) 142
Fazi, A., Piatti, E., Accorsi, A. and Magnani, M.
Cell age dependent decay of human erythrocytes glucose-6-phosphate isomerase (998) 286
Federici, G., see Arduini, A. (979) 1
Federici, G., see Arduini, A. (999) 203
Feezel, L.L., Gast, P., Smith, U.H. and Thurnauer, M.C.
Electron spin polarization of P^+-870Q^- observed in the reaction center protein of the photosynthetic bacterium *Rhodobacter sphaeroides* R-26. The effect of selective isotopic substitution at X- and Q-band microwave frequencies (974) 149
Feher, G., see Lubitz, W. (977) 227
Fehlau, R., Grygorczyk, R., Fuhrmann, G.F. and Schwarz, W.
Modulation of the Ca^{2+}- or Pb^{2+}-activated K^+-selective channels in human red cells. II. Parallelisms to modulation of the activity of a membrane-bound oxidoreductase (978) 37
Fehlau, R., see Fuhrmann, G.F. (983) 179
Fehlau, R., see Schwarz, W. (978) 32
Feijge, M.A.H., see Heemskerk, J.W.M. (1004) 252
Feil, R., see Quick, P. (973) 263
Feil, R., see Stitt, M. (973) 241
Feix, J.B. and Kalyanaraman, B.
Spin trapping of lipid-derived radicals in liposomes (992) 230
Feldman, D.A., see Weinhold, P.A. (1006) 299
Feller, G., Gerday, C., Sluse-Goffart, C.M. and Sluse, F.E.
Bioenergetic peculiarity of heart mitochondria from the hemoglobin- and myoglobin-free antarctic icefish (977) 233
Felsenfeld, G. and Rich, A.
on 'Studies on the formation of two- and three-stranded polyribonucleotides' (1000) 82
Ferguson, S.J., see McEwan, A.G. (973) 308
Fernandez, A.M., see Artigues, A. (985) 325
Fernandez-Belda, F., Soler, F. and Gomez-Fernandez, J.C.
Quinacrine inhibits the calcium-induced calcium release in heavy sarcoplasmic reticulum vesicles (985) 279
Fernandez, E. and Borgström, B.
Effects of tetrahydrolipstatin, a lipase inhibitor, on absorption of fat from the intestine of the rat (1001) 249
Fernández, E., see Michelangeli, F. (983) 82
Fernandez, F., see Cheillan, F. (999) 233
Fernández, H.N., see Robetto, E.J. (1013) 223
Fernández, J., see Sanchez, M. (990) 225
Fernig, D.G. and Mayer, R.J.
Insulin processing in primary endosomes is not responsible for insulin resistance observed in parametrial adipocytes from lactating rats (1010) 237
Ferradini, C., see Pin, S. (994) 47
Ferragut, J.A., see Artigues, A. (985) 325
Ferrari, G., see D'Agostino, L. (993) 228
Ferrari, N., Rocco, M., Aprile, A., Fassina, G. and Vidali, G.
Interaction retinol–chromatin: an analysis of DNA from vitamin A-treated V79 Chinese hamster cells (1007) 30
Ferrari, S., see Dixon, J.L. (1009) 47
Ferraro, C., see D'Agostino, L. (993) 228
Ferreira, V.F.N., see Lamy-Freund, M.T. (981) 207
Ferreras, J.M., Iglesias, R. and Girbés, T.
Effect of the chronic ethanol action on the activity of the general amino-acid permease from *Saccharomyces cerevisiae* var. *ellipsoideus* (979) 375
Ferri, G., Stoppini, M., Iadarola, P., Bellotti, V. and Merlini, G.
Structural characterization of κ II Inc, a new amyloid immunoglobulin (995) 103
Feuer, G., see Straub, F.B. (1000) 179
Fex, G., see Wahlberg, P. (1010) 287
Fidge, N., Morrison, J., Nugent, T. and Tozuka, M.
Monoclonal antibodies to human A-I apolipoprotein and characterisation of cyanogen bromide fragments of APOA-I (1003) 84
Field, F.J., see Mathur, S.N. (1001) 50
Figarella, C., see Carrère, J. (993) 137
Filliat, M., see Houdret, N. (992) 96
Fimmel, A.L. and Fordham, S.A.
The F_1F_0-ATPase of *Escherichia coli*. The substitution of alanine

by tyrosine at position 25 in the *c*-subunit affects function but not assembly (978) 299
Fimmel, A.L. and Norris, U.
The F_1F_0-ATPase of *Escherichia coli*. The substitution of glycine by valine at position 29 in the *c*-subunit affects function but not assembly (986) 257
Fimmel, S., Choli, T., Dencher, N.A., Büldt, G. and Wittmann-Liebold, B.
Topography of surface-exposed amino acids in the membrane protein bacteriorhodopsin determined by proteolysis and microsequencing (978) 231
Finazzi-Agrò, A., see Mossa, G. (986) 310
Finazzi-Agrò, A., see Rosato, N. (996) 195
Fincham, A.G., see Slavkin, H.C. (991) 12
Findlay, I., see Faivre, J.-F. (984) 1
Findlay, W.A., Zarkadas, C.G. and MacKenzie, R.E.
An improved procedure for the purification of formiminotransferase-cyclodeaminase from pig liver. Kinetics of the transferase activity with tetrahydropteroylpolyglutamates (999) 52
Fink, N.H., see Rao, A.G.A. (997) 278
Fiorentini, D., see Landi, L. (984) 21
Fiorini, R., Gratton, E. and Curatola, G.
Effect of cholesterol on membrane microheterogeneity: a study using 1,6-diphenyl-1,3,5-hexatriene fluorescence lifetime distributions (1006) 198
Fischer, E.H. and Krebs, E.G.
Commentary by (1000) 297
Fischer, E.H., see Krebs, E.G. (1000) 297
Fischer, J.E., see Balasubramaniam, A. (997) 176
Fischer, S., see Abeywardena, M.Y. (1003) 161
Fischer, S., see Lorenz, R.L. (993) 259
Fischer, T.M.
Cross bonding and stiffening of the red cell membrane (985) 218
Fiscus, R.R., see Waldman, S.A. (999) 157
Fisher, D., see Tilcock, C. (979) 208
Fisher, D., see Tilcock, C. (986) 167
Fisher, J.H., Shannon, J.M., Hofmann, T. and Mason, R.J.
Nucleotide and deduced amino acid sequence of the hydrophobic surfactant protein SP-C from rat: expression in alveolar type II cells and homology with SP-C from other species (995) 225
Fisher, J.H., see Emrie, P.A. (994) 215
Fisher, K.A. and Yanagimoto, K.C.
Transmembrane signaling: tumor promoter distribution (982) 237
Fisher, R.A., see Kester, M. (1014) 195
Fitzpatrick, P.F.
Identification of the rate-limiting step in serine proteinases from the effect of temperature on steady-state kinetics (995) 201
Flanagan, P.A., Kopečková, P., Kopeček, J. and Duncan, R.
Evaluation of protein-*N*-(2-hydroxypropyl)methacrylamide copolymer conjugates as targetable drug carriers. 1. Binding, pinocytic uptake and intracellular distribution of transferrin and anti-transferrin receptor antibody conjugates (993) 83
Flatmark, T., see Husebye, E.S. (1010) 250
Fleming, G.R., see Chan, C.K. (975) 59
Fliegel, L., Burns, K., Opas, M. and Michalak, M.
The high-affinity calcium binding protein of sarcoplasmic reticulum. Tissue distribution, and homology with calregulin (982) 1
Flores, O., see Mermelstein, F.H. (1009) 1
Florio, E., see Mehlhorn, I.E. (986) 281
Fluhler, E.N., Hurley, J.K. and Kochevar, I.E.
Laser intensity and wavelength dependence of Rose-Bengal-photosensitized inhibition of red blood cell acetylcholinesterase (990) 269
Foe, L.G., see Valaitis, A.P. (995) 187
Fojo, S., see Ross, R.S. (1004) 29
Folk, J.E., see Abbruzzese, A. (997) 248
Foltmann, B., see Drøhse, H.B. (995) 221
Fomichev, V.N., see Bresler, V.M. (982) 288
Fong, B.S. and Angel, A.
Transfer of free and esterified cholesterol from low-density lipoproteins and high-density lipoproteins to human adipocytes (1004) 53
Fontaine, R.N., see Kissel, J.A. (1006) 227
Fontaine, Y., see Salti, V. (1009) 161
Fonyó, A., see Ligeti, E. (973) 170
Fordham, S.A., see Fimmel, A.L. (978) 299
Forester, G.V., see Sauer, F.D. (1004) 205
Forlani, L., see Lundberg, P. (999) 12
Forman, S.A., Righi, D.L. and Miller, K.W.
Ethanol increases agonist affinity for nicotinic receptors from *Torpedo* (987) 95
Forrest, G., see Akman, S.A. (1009) 70
Forsén, S., see Lundberg, P. (999) 12
Forster, S., Scarlett, L. and Lloyd, J.B.
The effects of decreased growth temperature on the cystine content of cystinotic fibroblasts (1013) 7
Forsyth, G.W. and Gabriel, S.E.
Inhibiting conductive Cl uptake in membrane vesicles: specificity of α-phenylcinnamate (977) 19
Forte, T.M., see Gong, E.L. (1006) 317
Foster, N., see Birdsall, W.J. (1007) 176
Foucher, B., see Bessam, H. (990) 66
Fournet, B., see De Caro, A.M. (994) 281
Fowler, C., Huggins, J.P., Hall, C., Restall, C.J. and Chapman, D.
The effects of calcium, temperature and phospholamban phosphorylation on the dynamics of the calcium-stimulated ATPase of canine cardiac sarcoplasmic reticulum (980) 348
Fox, J.L., see Rice, W.R. (1006) 237
Fraker, P.J., see Cress, A.P. (992) 135
Francesconi, M.A., Donella-Deana, A., Furlanetto, V., Cavallini, L., Palatini, P. and Deana, R.
Further purification and characterization of the succinyl-CoA : 3-hydroxy-3-methylglutarate coenzyme A transferase from rat-liver mitochondria (999) 163
Francina, A., see Wajcman, H. (998) 25
Francis, Jr, R.B. and Neely, S.
Inhibition of endothelial secretion of tissue-type plasminogen activator and its rapid inhibitor by agents which increase intracellular cyclic AMP (1012) 207
Francis, S.E., see Hutchinson, F.J. (978) 17
Francis, S.E., see Hutchinson, F.J. (987) 212
Franck, F. and Schmid, G.H.
Interaction of hydroxylamine with the water-oxidizing complex at oxidation states S_1, S_2 and S_3 in etiochloroplasts of oat (977) 215
Franco, P., see Lombardi, P. (1003) 301
Francone, O.L., Kalopissis, A.-D. and Griffaton, G.
Contribution of cytoplasmic storage triacylglycerol to VLDL-triacylglycerol in isolated rat hepatocytes (1002) 28
Frank, H.A. and Violette, C.A.
Monomeric bacteriochlorophyll is required for the triplet energy transfer between the primary donor and the carotenoid in photosynthetic bacterial reaction centers (976) 222
Frank, H.A., see Taremi, S.S. (973) 86
Frank, R., see Hinsch, K.-D. (1013) 60
Franke, A.E., see Daumy, G.O. (998) 32
Franklyn, J.A., see Ahlquist, J.A.O. (1008) 251
Franson, R.C. and Rosenthal, M.D.
Oligomers of prostaglandin B_1 inhibit in vitro phospholipase A_2 activity (1006) 272
Franson, R.C., see Rosenthal, M.D. (1001) 1
Franson, R.C., see Rosenthal, M.D. (1006) 278
Franz, B., see Wille, B. (986) 47
Fraser, P.E., Rand, R.P. and Deber, C.M.

Bilayer-stabilizing properties of myelin basic protein in dioleoylphosphatidylethanolamine systems (983) 23
Fratelli, M., Gagliardini, V. and De Blasi, A.
Low affinity of β-adrenergic receptors for agonists on intact cells is not due to receptor sequestration (1012) 178
Frati, L., see Maroder, M. (1009) 188
Frati, L., see Pavan, A. (978) 158
Frederik, P.M., Stuart, M.C.A. and Verkleij, A.J.
Intermediary structures during membrane fusion as observed by cryo-electron microscopy (979) 275
Fredman, P., see Svennerholm, L. (1005) 109
Fredrikson, G., see Holm, C. (1006) 193
Freedman, A.S., see Pedrazzini, A. (989) 11
Freedman, J.H. and Peisach, J.
Resistance of cultured hepatoma cells to copper toxicity. Purification and characterization of the hepatoma metallothionein (992) 145
Fregien, N., see Jy, W. (983) 153
Freiberg, A., Godik, V.I., Pullerits, T. and Timpman, K.
Picosecond dynamics of directed excitation transfer in spectrally heterogeneous light-harvesting antenna of purple bacteria (973) 93
Freire, E., see Bradrick, T.D. (982) 94
Freire, M., see Garcia, G. (990) 59
Frelin, C., see Ladoux, A. (1013) 55
Frey, H.E., see Lepock, J.R. (980) 191
Freysz, L., see Roberti, R. (1004) 80
Frézard, F., Garnier-Suillerot, A., Bolard, J. and Castagna, M.
Membrane–phorbol ester interactions monitored by circular dichroism (979) 316
Frézard, F., see Tarasiuk, J. (1013) 109
Friedel, R., see Haeffner, E.W. (1005) 27
Friedman, G., see Chajek-Shaul, T. (1001) 316
Friedman, M.L. and Ball, Jr., W.J.
Determination of monoclonal antibody-induced alterations in Na^+/K^+-ATPase conformations using fluorescein-labeled enzyme (995) 42
Friedrich, T.D. and Ingram, V.M.
Identification of a novel casein kinase activity in HeLa cell nuclei (992) 41
Friesner, R.A. and Won, Y.
Spectroscopy and electron transfer dynamics of the bacterial photosynthetic reaction center (977) 99
Frimmer, M., see Ziegler, K. (980) 161
Fringeli, M., see Fringeli, U.P. (984) 301
Fringeli, U.P., Apell, H.-J., Fringeli, M. and Läuger, P.
Polarized infrared absorption of Na^+/K^+-ATPase studied by attenuated total reflection spectroscopy (984) 301
Fritzsch, G., Buchanan, S. and Michel, H.
Assignment of cytochrome hemes in crystallized reaction centers from *Rhodopseudomonas viridis* (977) 157
Fritzsch, G., Rumrich, G. and Ullrich, K.J.
Anion transport through the contraluminal cell membrane of renal proximal tubule. The influence of hydrophobicity and molecular charge distribution on the inhibitory activity of organic anions (978) 249
Froissart, P., Unligil, P., Aubry, H. and Proulx, P.
Modulation by phorbol 12-myristate 13-acetate of arachidonic acid release from rat basophilic leukemia cells stimulated with A23187 (1002) 376
Frölich, J.C., see Fauler, J. (1013) 80
Fromherz, P.
Selforganization of a membrane in synaptic geometry (986) 341
Fromherz, P. and Klingler, J.
An artificial membrane-cable: decay and delay of electrical potentials along a lipid bilayer with ion channels (987) 222
Fruchart, J.-C., see Benhamamouch, S. (1002) 45
Fruchart, J.-C., see Saïle, R. (992) 407
Fruchart, J.-C., see Steinmetz, A. (1006) 173
Fruchart, J.C., see Martin-Nizard, F. (1005) 201
Fryxell, D., see Polet, H. (1013) 279
Fu, J.Y., Haeggström, J., Collins, P., Meijer, J. and Rådmark, O.
Leukotriene A_4 hydrolase: analysis of some human tissues by radioimmunoassay (1006) 121
Fuchs, D., see Werner-Felmayer, G. (1012) 140
Fuggi, A.
Short-term regulation of nitrate uptake by a 'pump and leak' mechanism in the acidophilic nonvacuolated alga, *Cyanidium caldarium* (974) 141
Fuhr, G., Müller, T. and Hagedorn, R.
Reversible and irreversible rotating field-induced membrane modifications (980) 1
Fuhrmann, G.F., Fehlau, R., Schneider, H. and Knauf, P.A.
The effect of ferricyanide with iodoacetate in calcium-free solution on passive cation permeability in human red blood cells: comparison with the Gardos-effect and with the influence of PCMBS on passive cation permeability (983) 179
Fuhrmann, G.F., see Fehlau, R. (978) 37
Fuhrmann, G.F., see Schwarz, W. (978) 32
Fujii, K., see Mori, H. (1003) 98
Fujii-Kuriyama, Y., see Shimizu, T. (995) 116
Fujii, N., Muraoka, S. and Harada, K.
Purification and characterization of a protein containing D-aspartic acid in bovine lens (999) 239
Fujii, N., see Matsuzaki, K. (981) 130
Fujii, T., see Ogoma, Y. (997) 188
Fujii, T., see Sato, T. (992) 168
Fujiki, H., see Ohuchi, K. (1003) 9
Fujiki, H., see Ohuchi, K. (1013) 86
Fujimi, T., see Yamaguchi, T. (1010) 177
Fujimori, E.
Cross-linking and fluorescence changes of collagen by glycation and oxidation (998) 105
Fujimoto, K., see Oarada, M. (1012) 156
Fujimura, S., see Tamiya, N. (995) 28
Fujioka, M., see Gomi, T. (994) 172
Fujioka, M., see Ogawa, H. (996) 139
Fujisawa, H., see Kitani, T. (991) 44
Fujisawa, J., see Yoshimura, S. (981) 69
Fujisawa, K., see Ohmori, D. (996) 166
Fujisawa, S., see Kobayashi, A. (986) 83
Fujita, T., see Yamaguchi, T. (1010) 177
Fujita, Y., see Katsu, T. (983) 135
Fujiwara, A., see Kudo, Y. (978) 313
Fujiwara, M., see Mori, H. (1003) 98
Fujiwara, M., see Mori, H. (1003) 98
Fukase, M., see Yamaguchi, T. (1010) 177
Fukaya, N., Ito, M., Iwata, H. and Yamagata, T.
Characterization of the glycosphingolipids of pig cortical bone and cartilage (1004) 108
Fukazawa, H., Nishimura, T. and Suzuki, H.
A nucleotide phosphodiesterase with preference for 2′,5′-phosphodiester bonds from Ehrlich ascites carcinoma (991) 272
Fuki, I.V., Preobrazhensky, S.N., Misharin, A.Y., Bushmakina, N.G., Menschikov, G.B., Repin, V.S. and Karpov, R.S.
Effect of cell cholesterol content on apolipoprotein B secretion and LDL receptor activity in the human hepatoma cell line, HepG2 (1001) 235
Fukuda, H., see Katsurada, A. (1004) 103
Fukuda, H., see Katsurada, A. (1006) 104
Fukuda, T., see Kocha, T. (991) 56
Fukumori, Y., see Kurokawa, T. (976) 135
Fukumori, Y., see Sato, A. (976) 129
Fukuyama, K., see Kikuchi, M. (991) 19
Fulco, A.J., see He, J.-S. (1009) 301

Funakoshi, S., see Matsuzaki, K. (981) 130
Funasaki, N., see Neya, S. (996) 226
Fung, L.W.-M., Narasimhan, C., Lu, H.-Z. and Westerman, M.P.
Reduced water exchange in sickle cell anemia red cells: a membrane abnormality (982) 167
Funk, C.D., see Karaplis, A.C. (1010) 369
Furlanetto, V., see Francesconi, M.A. (999) 163
Furois-Corbin, S. and Pullman, A.
A possible model for the inner wall of the acetylcholine receptor channel (984) 339
Furuichi, M., see Yamamoto, M. (1008) 322

G

Gabellini, N., Gao, Z., Oesterhelt, D., Venturoli, G. and Melandri, B.A.
Reconstitution of cyclic electron transport and photophosphorylation by incorporation of the reaction center, cytochrome b/c_1 complex and ATP synthase from *Rhodobacter capsulatus* into ubiquinone-10/phospholipid vesicles (974) 202
Gabellini, N., see Crielaard, W. (974) 211
Gabev, E., Kasianowicz, J., Abbott, T. and McLaughlin, S.
Binding of neomycin to phosphatidylinositol 4,5-bisphosphate (PIP_2) (979) 105
Gabilan, N., see Arêas, E.P.G. (997) 15
Gabizon, A., see Druckmann, S. (980) 381
Gabriel, S.E., see Forsyth, G.W. (977) 19
Gaczyńska, M.
Changes in the proteolytic activity of human erythrocyte membrane during red cell aging (981) 173
Gad'on, N., see Tadros, M.H. (976) 161
Gadsby, P.M.A., Hartshorn, R.T., Moura, J.J.G., Sinclair-Day, J.D., Sykes, A.G. and Thomson, A.J.
Redox properties of the diheme cytochrome c_4 from *Azotobacter vinelandii* and characterisation of the two hemes by NMR, MCD and EPR spectroscopy (994) 37
Gaffney, D., see Series, J. (1003) 183
Gagliardini, V., see Fratelli, M. (1012) 178
Gaido, M.L. and Strobl, J.S.
Inhibition of rat growth hormone promoter activity by site-specific DNA methylation (1008) 234
Gainer, J.L., see Eiteman, M.A. (992) 125
Gaines, III, G.L., see Chan, C.K. (975) 59
Gais, G., see Schulz, W.A. (1013) 125
Galacteros, F., see Wajcman, H. (998) 25
Galanter, W., see Labotka, R.J. (981) 358
Galdieri, M., Piantedosi, R. and Blaner, W.S.
Levels of binding proteins for retinoids in cultured Sertoli cells: effect of medium composition (1011) 168
Gale, P., see Sternberg, B. (980) 117
Galivan, J., see Rhee, M.S. (1011) 122
Galla, H.-J., see Tampé, R. (982) 41
Galle, P.R., Theilmann, L., Raedsch, R., Rudolph, G., Kommerell, B. and Stiehl, A.
Taurine and glycine conjugation and sulfation of lithocholate in primary hepatocyte cultures (1003) 250
Galleron, C., see Crevel, G. (1007) 36
Gallet, O., Lemoine, R., Larsson, C. and Delrot, S.
The sucrose carrier of the plant plasma membrane. I. Differential affinity labeling (978) 56
Gallet, O., see Lemoine, R. (978) 65
Galleyrand, J.-C., see Magous, R. (1010) 357
Gallice, P., see Monti, J.-P. (1010) 210
Galloway, R. and Mets, L.
Positive selection for sensitivity of *Chlamydomonas reinhardtii* to Photosystem II-inhibiting herbicides (975) 66
Galtier, N., see Gibrat, R. (979) 46
Gambacorta, A., see Lanzotti, V. (1001) 31
Gambacorta, A., see Lanzotti, V. (1002) 398
Gambacorta, A., see Lanzotti, V. (1004) 44
Gambari, R., see Nastruzzi, C. (1013) 36
Game, S., see Eisenthal, R. (985) 81
Gamliel, A., see Brik, H. (980) 273
Ganapathy, V., see Kulanthaivel, P. (985) 139
Ganapathy, V., see Miyamoto, Y. (978) 25
Gandin, C., see Alvaro, D. (1006) 116
Ganju, R.K., Murthy, S.K. and Vithayathil, P.J.
Purification and characterization of two cellobiohydrolases from *Chaetomium thermophile* var. *coprophile* (993) 266
Gannon, F., see Keaveney, M. (1007) 289
Gao, F., see Yamamoto, M. (1008) 322
Gao, Z., see Gabellini, N. (974) 202
Garab, G., see Matthijs, H.C.P. (975) 185
García, A.F., see Tadros, M.H. (976) 161
Garcia, G., Nogueira, M. and Freire, M.
Purification and characterization of a cofactor that controls the oxidative phase of the pentose phosphate cycle in liver and other tissues of rat (990) 59
García, M.L., see Kaczorowski, G.J. (988) 287
Garcia-Barreno, P., see Casals, C. (1003) 201
García-Cánovas, F., see Acosta, M. (996) 7
García-Sancho, J., see Alonso, M.T. (981) 367
García-Sancho, J., see Alvarez, J. (980) 134
García-Sastre, A., Cabezas, J.A. and Villar, E.
Proteins of Newcastle Disease Virus envelope: interaction between the outer hemagglutinin-neuraminidase glycoprotein and the inner non-glycosylated matrix protein (999) 171
Gardam, M. and Silvius, J.R.
Intermixing of dipalmitoylphosphatidylcholine with phospho- and sphingolipids bearing highly asymmetric hydrocarbon chains (980) 319
Gardner, H.W.
Soybean lipoxygenase-1 enzymically forms both (9*S*)- and (13*S*)-hydroperoxides from linoleic acid by a pH-dependent mechanism (1001) 274
Gardner, J.D., see Stark, H.A. (1010) 145
Gárdos, G., see Magócsi, M. (984) 88
Garg, M., see Thomson, A.B.R. (1001) 302
Garg, M.L., Thomson, A.B.R. and Clandinin, M.T.
Hypotriglyceridemic effect of dietary $n-3$ fatty acids in rats fed low versus high levels of linoleic acid (1006) 127
Gargouri, Y., Moreau, H., Jain, M.K., De Haas, G.H. and Verger, R.
Ajoene prevents fat digestion by human gastric lipase in vitro (1006) 137
Gargouri, Y., Moreau, H. and Verger, R.
Gastric lipases: biochemical and physiological studies (1006) 255
Garlaschi, F.M., see Jennings, R.C. (975) 29
Garlid, K.D., Beavis, A.D. and Ratkje, S.K.
On the nature of ion leaks in energy-transducing membranes (976) 109
Garnier-Suillerot, A., see Frézard, F. (979) 316
Garnier-Suillerot, A., see Tarasiuk, J. (1013) 109
Garrahan, P.J., see Rossi, R.C. (981) 105
Garrahan, P.J., see Rossi, R.C. (981) 85
Garrahan, P.J., see Rossi, R.C. (981) 95
Garrido-Pertierra, A., see Sanchez, M. (990) 225
Garrity, M.J., see Brass, E.P. (1010) 233
Gary-Bobo, C.M., see Hervé, M. (980) 261

Garzó, T., see Spolarics, Z. (1012) 231
Gascard, P., see Apovo, M. (984) 26
Gasnier, F., Louisot, P. and Gateau-Roesch, O.
Topological orientation of mitochondrial GDPmannose : dolichyl-monophosphate mannosyltransferase in the outer membrane (980) 339
Gast, P., see Feezel, L.L. (974) 149
Gateau-Roesch, O., see Gasnier, F. (980) 339
Gatt, S., see Marchesini, S. (1002) 14
Gatt, S., see Nègre, A. (1006) 84
Gatt, S., see Viani, P. (1002) 20
Gattegno, L., see Tarasiuk, J. (1013) 109
Gausepohl, H., see Hinsch, K.-D. (1013) 60
Gautheron, D.C., see Falson, P. (975) 119
Gauthier, F., see Kuehn, L. (991) 263
Gauthier, T., Denis-Pouxviel, C., Paris, H. and Murat, J.-C.
Study on ATP-generating system and related hexokinase activity in mitochondria isolated from undifferentiated or differentiated HT29 adenocarcinoma cells (975) 231
Gauthier, Y., see Schulman, H.M. (1010) 1
Gautier, M., see Bertho, P. (978) 91
Gautvik, K., see Spydevold, (1003) 80
Gayda, J.-P., see Dolla, A. (975) 395
Gazdar, A.F., see O'Reilly, M.A. (1011) 140
Gazzin, B., see Miccio, M. (981) 115
Geary, W.A. and Gonias, S.L.
Inactivation of α_2-antiplasmin by limited reaction with *cis*-dichlorodiammineplatinum(II) (994) 1
Gebicki, J.M., see Thomas, S.M. (1002) 189
Gedamu, L., see Misra, S. (1007) 325
Geelen, M.J.H., see Paulussen, R.J.A. (1001) 201
Geelen, M.J.H., see Tijburg, L.B.M. (1004) 1
Geletyuk, V.I. and Kazachenko, V.N.
Single potential-dependent K^+ channels and their oligomers in molluscan glial cells (981) 343
Gennis, R.B., see Meinhardt, S.W. (975) 175
Gentile, T., see Borel, I.M. (990) 162
Genty, B., Briantais, J.-M. and Baker, N.R.
The relationship between the quantum yield of photosynthetic electron transport and quenching of chlorophyll fluorescence (990) 87
Geoghegan, K.F., see Daumy, G.O. (998) 32
George, T.P., Morash, S.C., Cook, H.W., Byers, D.M., Palmer, F.B.S.C. and Spence, M.W.
Phosphatidylcholine biosynthesis in cultured glioma cells: evidence for channeling of intermediates (1004) 283
Georgescauld, D., see Delnomdedieu, M. (986) 191
Georghiou, S., see Bradrick, T.D. (982) 94
Geraci, G., see Aniello, F. (1008) 31
Gérard, B., see Trentesaux, C. (1012) 161
Gérard, D., see Bourre, J.M. (1004) 387
Gercken, G., see Berg, I. (1010) 100
Gerday, C., see Feller, G. (977) 233
Gergeľ, D., see Ondriaš, K. (1003) 238
Gergely, P., see Bakó, É. (1013) 300
Gerken, S., Dekker, J.P., Schlodder, E. and Witt, H.T.
Studies on the multiphasic charge recombination between chlorophyll a_{II}^+ (P-680$^+$) and plastoquinone Q_A^- in Photosystem II complexes. Ultraviolet difference spectrum of Chl-a_{II}^+/Chl-a_{II} (977) 52
Gerl, C., see Rasp, G. (999) 335
Gerok, W., see Busshardt, E. (1010) 151
Gerrard, J.M. and Robinson, P.
Identification of the molecular species of lysophosphatidic acid produced when platelets are stimulated by thrombin (1001) 282
Gershfeld, N.L.
The critical unilamellar lipid state: a perspective for membrane bilayer assembly (988) 335
Gershman, L.C., Selden, L.A., Kinosian, H.J. and Estes, J.E.
Preparation and polymerization properties of monomeric ADP-actin (995) 109
Geschwind, J.-F., Hiriart, M., Glennon, M.C., Najafi, H., Corkey, B.E., Matschinsky, F.M. and Prentki, M.
Selective activation of Ca^{2+} influx by extracellular ATP in a pancreatic β-cell line (HIT) (1012) 107
Geuns, J., see De Smedt, H. (1012) 171
Ghanotakis, D.F., De Paula, J.C., Demetriou, D.M., Bowlby, N.R., Petersen, J., Babcock, G.T. and Yocum, C.F.
Isolation and characterization of the 47 kDa protein and the D1-D2-cytochrome *b*-559 complex (974) 44
Ghiselli, G., Crump III, W.L., Musanti, R., Sherrill, B.C. and Gotto, Jr., A.M.
Metabolism of apolipoprotein A-IV in rat (1006) 26
Ghiselli, G., see Soma, M.R. (1003) 307
Ghishan, F.K., Sutter, W., Said, H., Leonard, D., Pietsch, J. and Abumrad, N.
Glutamine transport by rat basolateral membrane vesicles (979) 77
Ghishan, F.K., see Van Voorhis, K. (978) 51
Ghosh, P., see Cole, T.-C. (990) 254
Gibello, A., see Sanchez, M. (990) 225
Gibrat, R., Grouzis, J.-P., Rigaud, J., Galtier, N. and Grignon, C.
Electrostatic analysis of effects of ions on the inhibition of corn root plasma membrane Mg^{2+}-ATPase by the bivalent orthovanadate (979) 46
Gieselmann, A., see Schürholz, T. (986) 225
Giffin, B., see Keough, K.M.W. (983) 51
Gilat, T., see Peled, Y. (1003) 246
Gilboe, D.P. and Nuttall, F.Q.
The importance of nucleoside triphosphate inhibition of liver glycogen synthase phosphatase activity (991) 340
Gillard, J., see Patrignani, P. (992) 71
Gillard, J.W., see Mais, D.E. (1012) 184
Giménez, C., see Zafra, F. (979) 147
Giménez, G., see Martínez, J.P. (990) 45
Gimes, G., see Asbóth, G. (1002) 101
Ginsburg, H., see Nissani, E. (978) 293
Giordano, G., see Silvestro, A. (999) 208
Giovannelli, A., see Congiu Castellano, A. (996) 240
Giovannini, E., see Talesa, V. (993) 7
Giphart-Gassler, M., see Tasseron-de Jong, J. (1008) 62
Giphart-Gassler, M., see Tasseron-de Jong, J.G. (1007) 215
Giraud, F., see Apovo, M. (984) 26
Girault, A., see Simard, G. (1005) 245
Girbés, T., see Ferreras, J.M. (979) 375
Giziewicz, J.B., see Carrier, D. (983) 100
Gladkaya, E.M., see Victorov, A.V. (984) 119
Glanville, N.T., Byers, D.M., Cook, H.W., Spence, M.W. and Palmer, F.B.S.C.
Differences in the metabolism of inositol and phosphoinositides by cultured cells of neuronal and glial origin (1004) 169
Glaser-Wuttke, G., Keppner, J. and Rasched, I.
Pore-forming properties of the adsorption protein of filamentous phage fd (985) 239
Glazer, A.N., see Maxson, P. (977) 40
Glennon, M.C., see Geschwind, J.-F. (1012) 107
Glickson, J.D., see Levy, A. (991) 97
Glickson, J.D., see Verdery, R.B. (1006) 287
Gliemann, J., Davidsen, O. and Moestrup, S.K.
Characterization, size estimation and solubilization of α-macroglobulin complex receptors in liver membranes (980) 326
Gliemann, J., see Jensen, P.H. (986) 135
Gliozzi, A., see Robello, M. (982) 173
Glockner, J.F., see Chan, H.-C. (1014) 141
Glund, K., see Abel, S. (998) 145
Godik, V.I., see Freiberg, A. (973) 93
Gogarten, J.P. and Bentrup, F.-W.

The electrogenic proton/hexose carrier in the plasmalemma of *Chenopodium rubrum* suspension cells: effects of Δc, ΔpH and $\Delta\psi$ on hexose exchange diffusion (978) 43
Goh, C.J., Szczepan, E.W., Menhart, N. and Viswanatha, T.
Studies on lysine: N^6-hydroxylation by cell-free systems of *Aerobactor aerogenes 62-1* (990) 240
Gokus, M., see Bickel-Sandkötter, S. (974) 30
Golbeck, J.H., see Parrett, K.G. (973) 324
Goldberg, I. and Hochman, A.
Purification and characterization of a novel type of catalase from the bacterium *Klebsiella pneumoniae* (991) 330
Goldman, G., see Peled, Y. (1003) 246
Goldman, R. and Sopher, O.
Control of lipoprotein lipase secretion in mouse macrophages (1001) 120
Goldstein, R.A. and Boxer, S.G.
The effect of very high magnetic fields on the delayed fluorescence from oriented bacterial reaction centers (977) 70
Goldstein, R.A. and Boxer, S.G.
The effect of very high magnetic fields on the reaction dynamics in bacterial reaction centers: implications for the reaction mechanism (977) 78
Goll, D.E., see Wolfe, F.H. (998) 236
Gollamudi, R., see Dillingham, E.O. (990) 128
Gollamudi, R., see Petrusewicz, J. (983) 161
Gombos, Z., see Vigh, L. (979) 361
Gomes de Mesquita, D.S., see Al, B.J.M. (1004) 245
Gomez, Jr., B. and Tappel, A.L.
Gómez, N., see Balsa, M.D. (992) 140
Gómez, R., see Lozano, R.M. (976) 196
Gómez-Fernández, J.C., see Aranda, F.J. (985) 26
Gomez-Fernandez, J.C., see Fernandez-Belda, F. (985) 279
Gomez-Fernandez, J.C., see Villalain, J. (978) 305Selenoprotein P receptor from rat (979) 20
Gómez-Márquez, J., see Bustelo, X.R. (977) 341
Gomi, T., Takata, Y. and Fujioka, M.
Rat liver *S*-adenosylhomocysteinase. Spectrophotometric study of coenzyme binding (994) 172
Gong, E.L., Nichols, A.V., Weisgraber, K.H., Forte, T.M., Shore, V.G. and Blanche, P.J.
Discoidal complexes containing apolipoprotein E and their transformation by lecithin–cholesterol acyltransferase (1006) 317
Gong, E.L., see Nichols, A.V. (1001) 325
Gonias, S.L., see Geary, W.A. (994) 1
Gonzalez-Ros, J.M., see Artigues, A. (985) 325
Goode, N.T., see Hart, I.R. (989) 65
Goodman, R., Wei, L.-X., Xu, J.-C. and Henderson, A.
Exposure of human cells to low-frequency electromagnetic fields results in quantitative changes in transcripts (1009) 216
Goold, R.D., see Ivanetich, K.M. (998) 7
Goormaghtigh, E., De Meutter, J., Vanloo, B., Brasseur, R., Rosseneu, M. and Ruysschaert, J.-M.
Evaluation of the secondary structure of apo B-100 in low-density lipoprotein (LDL) by infrared spectroscopy (1006) 147
Gordon, J.I., see Levin, M.S. (1003) 293
Gordon, J.L., see Morgan, D.M.L. (1010) 184
Gordon, R.K., see Duerre, J.A. (985) 211
Gore, M.G., see Spencer, P. (994) 270
Görlich, J.-K., see Lenzen, S. (982) 140
Gorman, L.A.S., see Schmall, M.W. (999) 267
Goto, N., see Juneja, L.R. (1003) 277
Goto, S., see Motojima, K. (1008) 116
Gotto, Jr., A.M., see Ghiselli, G. (1006) 26
Gotto, Jr., A.M., see Massey, J.B. (999) 121
Gotto, Jr., A.M., see Soma, M.R. (1003) 307
Gotto, Jr., A.M., see Yang, C.-y. (1002) 231
Goudeau, H., see Goudeau, M. (1014) 14
Goudeau, M., Herve, M. and Goudeau, H.
Spontaneous activation by sea water induces an intracellular pH rise in crab eggs, as evidenced by ^{31}P-NMR, H^+-sensitive microelectrodes and fluorescent probes (1014) 14
Goudsmit, E.M., Ketchum, P.A., Grossens, M.K. and Blake, D.A.
Biosynthesis of galactogen: identification of a β-(1 → 6)-D-galactosyltransferase in *Helix pomatia* albumen glands (992) 289
Gould, G.W., see Shi, S.P. (982) 187
Goulding, M.D. and Ralph, R.K.
Cyclic-AMP-induced c-*fos* expression and its relevance to differentiation of a transformed mast cell line (1007) 99
Goulut, C., see Saunier, B. (1011) 110
Gounaris, K., Chapman, D.J. and Barber, J.
Isolation and characterisation of a D1/D2/cytochrome *b*-559 complex from *Synechocystis* 6803 (973) 296
Gounaris, K., see Miyazaki, A. (975) 142
Govindjee, , see Shopes, R.J. (974) 114
Gowing, M.R., see Whiting, M.J. (1001) 176
Graf, J., see Thalhammer, T. (979) 371
Graifer, D.M., Babkina, G.T., Matasova, N.B., Vladimirov, S.N., Karpova, G.G. and Vlassov, V.V.
Structural arrangement of tRNA binding sites on *Escherichia coli* ribosomes, as revealed from data on affinity labelling with photoactivatable tRNA derivatives (1008) 146
Grand, R.J.A., see Raggi, A. (997) 135
Granstrom, D., see Takemoto, L. (995) 259
Grant, C.W.M., Hamilton, K.S., Hamilton, K.D. and Barber, K.R.
Physical biochemistry of a liposomal amphotericin B mixture used for patient treatment (984) 11
Grant, C.W.M., see Mehlhorn, I.E. (986) 281
Grant, W.D., see Lanzotti, V. (1001) 31
Grant, W.D., see Lanzotti, V. (1002) 398
Grapengiesser, E., Gylfe, E. and Hellman, B.
Regulation of pH in individual pancreatic β-cells as evaluated by fluorescence ratio microscopy (1014) 219
Gräsbeck, R., see Guéant, J.L. (992) 281
Grassl, S.M., see Ogin, C. (980) 248
Grasso, J.A., see Adams, M.L. (1012) 243
Grasso, R.J., Heller, R., Cooley, J.C. and Haller, E.M.
Electrofusion of individual animal cells directly to intact corneal epithelial tissue (980) 9
Gratton, E., see Barcellona, M.L. (993) 174
Gratton, E., see Fiorini, R. (1006) 198
Graupe, K., Trommer, W.E. and Bisswanger, H.
Interaction between catalytic and regulatory sites of the pyruvate dehydrogenase from *Escherichia coli* studied by the ESR technique (999) 176
Gray, Jr., H.B., see Lau, P.P. (1007) 73
Gray, K.A., see Hirasawa, M. (994) 229
Gray, M.L., Pizzanelli, A.M., Lee, R.C., Grodzinsky, A.J. and Swann, D.A.
Kinetics of the chondrocyte biosynthetic response to compressive load and release (991) 415
Gray, M.W., see Joyce, P.B.M. (1008) 355
Green, B.R., see Camm, E.L. (974) 180
Green, B.R., see Webb, M.S. (984) 41
Greenbaum, N.L., see Mauzerall, D. (974) 119
Greenfield, N.J., Wu, X. and Jordan, F.
Proton magnetic resonance spectra of adrenodoxin: features of the aromatic region (995) 246
Gregg, R.E., see Mann, W.A. (1005) 239
Gregg, R.E., see Ross, R.S. (1004) 29
Gregoriadis, G., see Senior, J. (1003) 58
Gregoriadis, G., see Weissig, V. (1003) 54
Grell, E., see Kojro, Z. (985) 1
Grendell, J., see Rothman, S.S. (991) 484
Griebenow, K. and Holzwarth, A.R.

Pigment organization and energy transfer in green bacteria.1. Isolation of native chlorosomes free of bound bacteriochlorophyll *a* from *Chloroflexus aurantiacus* by gel-electrophoretic filtration (973) 235
Griffaton, G., see Francone, O.L. (1002) 28
Griffey, R.H., see Busse, S.C. (984) 183
Griffin, R.J., see Sansom, C.E. (995) 21
Griffioen, M., see Cohen, L.H. (1002) 69
Griffiths, M.E., see Treacy, G.B. (990) 263
Grignon, C., see Gibrat, R. (979) 46
Grigorian, G.Y., see Korichneva, I.L. (1014) 173
Grimes, S.R., see Wolfe, S.A. (1007) 140
Grinfeldt, A.E., see Schagina, L.V. (978) 145
Grinstein, S., Rotin, D. and Mason, M.J.
Na^+/H^+ exchange and growth factor-induced cytosolic pH changes. Role in cellular proliferation (988) 73
Gripois, D., see Savu, L. (992) 379
Grodzinsky, A.J., see Gray, M.L. (991) 415
Groen, A.K., Noordam, C., Drapers, J.A.G., Egbers, P., Hoek, F.J. and Tytgat, G.N.J.
An appraisal of the role of biliary phospholipases in the pathogenesis of gallstone disease (1006) 179
Groener, J.E.M., Van Gent, T. and Van Tol, A.
Effect of lipid transfer protein on plasma lipids, apolipoproteins and metabolism of high-density lipoprotein cholesteryl ester in the rat (1002) 93
Grønn, M., see Christensen, E. (1002) 79
Grønn, M., see Christensen, E. (1004) 187
Grønn, M., see Hagve, T.-A. (1004) 143
Gross, E. and Ehrenberg, B.
The partition and distribution of porphyrins in liposomal membranes. A spectroscopic study (983) 118
Grossens, M.K., see Goudsmit, E.M. (992) 289
Grouse, D., see Birke, S. (999) 243
Grouzis, J.-P., see Gibrat, R. (979) 46
Grover, T.A., see Reidl, H.H. (1010) 325
Growe, L.M., see Wistrom, C.A. (984) 238
Gruber, H.E., see Barshop, B.A. (999) 19
Gruda, I., see Brajtburg, J. (985) 307
Grunberg-Manago, M., Ortiz, P.J. and Ochoa, S.
on 'Enzymic synthesis of polynucleotides. I. Polynucleotide phosphorylase of *Azobacter vinelandii*' (1000) 59
Grunberg-Manago, M.
Recollections on studies of polynucleotide phosphorylase: a commentary by (1000) 59
Gruppuso, P.A.
Effects of fetal hypoinsulinemia on fetal hepatic insulin binding in the rat (1010) 270
Grygorczyk, R., see Fehlau, R. (978) 37
Gstraunthaler, G., see Ruedl, C. (991) 280
Gu, Y.C., see Lanclos, K.D. (1008) 109
Gu, Z.-W., see Yang, C.-y. (1002) 231
Gual, A., see Palés, J. (980) 33
Gualtieri, P., Barsanti, L. and Passarelli, V.
Absorption spectrum of a single isolated paraflagellar swelling of *Euglena gracilis* (993) 293
Guard-Friar, D., Hanzlik, C. and MacColl, R.
Phycoerythrin 566 – a fluorescence study (973) 118
Guarneri, M., see Ascenzi, P. (998) 210
Guarnieri, C., see Ventura, C. (987) 69
Gubenšek, F., see Križaj, I. (999) 198
Guderley, H., Jean, C. and Blouin, M.
The effect of fatigue on the binding of glycolytic enzymes in the isolated gastrocnemius of *Rana pipiens* (977) 87
Guéant, J.L., Jokinen, O., Schohn, H., Monin, B., Nicolas, J.P. and Gräsbeck, R.
Purification of intrinsic factor receptor from pig ileum using as affinity medium human intrinsic factor covalently bound to Sepharose (992) 281
Guérin, B., see Rigoulet, M. (975) 325
Guerin, M., see Manon, S. (985) 127
Guerlesquin, F., see Dolla, A. (975) 395
Guerrero, A. and Darszon, A.
Egg jelly triggers a calcium influx which inactivates and is inhibited by calmodulin antagonists in the sea urchin sperm (980) 109
Guerritore, A., see Burlini, N. (1014) 153
Guettet, C., Mathé, D., Navarro, N. and Lecuyer, B.
Effects of chronic glucagon administration on rat lipoprotein composition (1005) 233
Guggino, W.B., see Hilden, S.A. (983) 77
Guigliarelli, B., see Dolla, A. (975) 395
Guillou, Y., see Wong, P.T.T. (996) 260
Guindon, Y., see Mais, D.E. (1012) 184
Gulino, A., see Maroder, M. (1009) 188
Gülzow, M., see Rehm, A.M. (973) 131
Gumbhir, K., Sanyal, S.N., Minocha, R., Wali, A. and Majumdar, S.
Glucose-6-phosphate phosphohydrolase activity in guinea pig liver microsomes is influenced by phosphatidylcholine. Interaction with cholesterol-enriched membranes (981) 77
Gupta, C.M., see Bhakuni, V. (982) 216
Gupta, R.K., see Jelicks, L.A. (1012) 261
Guse, A.H., see Berg, I. (1010) 100
Gutierrez-Merino, C., see Henao, F. (984) 135
Gutierrez-Ocaña, M.T., Lopez-Aparicio, P., Perez-Albarsanz, M.A. and Recio, M.N.
Effects of in vivo and in vitro lindane-treatment on rat ventral prostate lipids (1003) 67
Gutowicz, J., see Dąbrowska, A. (980) 357
Guyot, J., see Delort, A.-M. (1013) 11
Guyre, P.M., see Bigler, R.D. (1011) 102
Guzmán, M. and Castro, J.
Ethanol increases the sensitivity of carnitine palmitoyltransferase I to inhibition by malonyl-CoA in short-term hepatocyte incubations (1002) 405
Gylfe, E., see Grapengiesser, E. (1014) 219

H

Ha, Y.C., see Meyer, B.J. (1004) 73
Haberle, F.C., see Levy, A. (991) 97
Hachimori, A., see Ogoma, Y. (997) 188
Hachimura, S., see Kaminogawa, S. (998) 50
Hackett, T.J. and McHale, A.P.
Production of exocellobiohydrolase activity by *Talaromyces emersonii* CBS 814.70 during growth on lactose-containing media (991) 248
Haeffner, E.W. and Friedel, R.
Induction of an endothermic transition in the Arrhenius plot of fatty acid uptake by lipid-depleted ascites tumor cells (1005) 27
Haeggström, J., see Fu, J.Y. (1006) 121
Haest, C.W.M., see Allan, D. (986) 115
Haest, C.W.M., see Bröring, K. (986) 321
Haest, C.W.M., see Deuticke, B. (982) 53
Hagane, K., Akera, T. and Stemmer, P.
Effects of Ca^{2+} on the sodium pump observed in cardiac myocytes isolated from guinea pigs (982) 279

Hagar, A.F., Hwang, D.H. and Dietz, T.H.
Lipoxygenase activity in the gills of the freshwater mussel, *Ligumia subrostrata* (1005) 162
Hagedorn, R., see Fuhr, G. (980) 1
Hagelberg, C., see Allan, D. (986) 115
Hagenfeldt, Y., Eriksson, H. and Björkhem, I.
Stimulatory effect of testosterone on renal 25-hydroxyvitamin D-3 1α-hydroxylase in guinea pig (1002) 84
Hägerstrand, H. and Isomaa, B.
Vesiculation induced by amphiphiles in erythrocytes (982) 179
Hagino, Y., see Chihara, M. (1012) 5
Hagve, T.-A., Narce, M., Grønn, M., Christensen, E., Ulmann, L., Poisson, J.P. and Christophersen, B.
The effect of dietary α-bromopalmitate on blood lipids in the rat (1004) 143
Hagve, T.-A. and Sprecher, H.
Metabolism of long-chain polyunsaturated fatty acids in isolated cardiac myocytes (1001) 338
Hagve, T.-A., see Christensen, E. (1002) 79
Hagve, T.-A., see Christensen, E. (1004) 187
Haider, M.Z. and Ellar, D.J.
Mechanism of action of *Bacillus thuringiensis* insecticidal δ-endotoxin: interaction with phospholipid vesicles (978) 216
Hajji, M.E., Rebuffat, S., Le Doan, T., Klein, G., Satre, M. and Bodo, B.
Interaction of trichorzianines A and B with model membranes and with the amoeba *Dictyostelium* (978) 97
Haldar, S., see Monroe, J.G. (1013) 273
Halestrap, A.P.
The regulation of the matrix volume of mammalian mitochondria in vivo and in vitro and its role in the control of mitochondrial metabolism (973) 355
Halimi, O., see Chajek-Shaul, T. (1014) 178
Hall, C., see Fowler, C. (980) 348
Hall, C., see Welte, W. (984) 193
Hall, E.R., see Nollert, M.U. (1005) 72
Hall, J., see Nutting, D. (1004) 357
Hall, K., see Carlsson-Skwirut, C. (1011) 192
Hall, N.A., Jolly, R.D., Palmer, D.N., Lake, B.D. and Patrick, A.D.
Analysis of dolichyl pyrophosphoryl oligosaccharides in purified storage cytosomes from ovine ceroid-lipofuscinosis (993) 245
Hall, P.K. and Roberts, R.C.
Phosphate promotes glycation of antithrombin III which interferes with heparin binding (993) 217
Haller, E.M., see Grasso, R.J. (980) 9
Halline, A.G., Dudeja, P.K. and Brasitus, T.A.
Premalignant alterations in rat colonic N^1-acetylspermidine levels induced by 1,2-dimethylhydrazine: effects of a high corn oil dietary regimen (990) 280
Halline, A.G., Dudeja, P.K. and Brasitus, T.A.
1,2-Dimethylhydrazine-induced alterations in N^1-acetylspermidine levels in rat distal colonic mucosa: effects of 2-difluoromethylornithine (992) 106
Halliwell, G. and Halliwell, N.
Cellulolytic enzyme components of the cellulase complex of *Clostridium thermocellum* (992) 223
Halliwell, N., see Halliwell, G. (992) 223
Halperin, G., see Stein, O. (1006) 144
Halpern, Z., see Peled, Y. (1003) 246
Halushka, P.V., see Mais, D.E. (1012) 184
Halushka, P.V., see Rogers, T.S. (1001) 169
Halwer, M., see Herz, F. (1013) 259
Hamada, A., see Murayama, J.-I. (999) 273
Hamada, A., see Naito, M. (985) 147
Hamaguchi, M., Takahashi, I., Takehara, T., Takamatsu, J. and Saito, H.
Comparison of recombinant tissue-type plasminogen activator (rt-PA) expressed in mouse C127 cells and human vascular plasminogen activator (HV-PA) (1009) 143
Hamano, A., see Hanazawa, S. (1012) 57
Hamazaki, H.
Calcium-dependent polymerization of human serum amyloid P component is inhibited by heparin and dextran sulfate (998) 231
Hamel, E., see Bai, R.-l. (994) 12
Hamilton, K.D., see Grant, C.W.M. (984) 11
Hamilton, K.S., see Grant, C.W.M. (984) 11
Hammann, R., see Edenharder, R. (1002) 37
Hammann, R., see Edenharder, R. (1004) 230
Hammarskjöld, M.-L. and Rekosh, D.
The molecular biology of the human immunodeficiency virus (989) 269
Hammen, H.-W., see Schadewaldt, P. (992) 115
Hamosh, M., see Amr, S. (1001) 145
Hamosh, P., see Amr, S. (1001) 145
Hampel, G., Watanabe, K., Weksler, B.B. and Jaffe, E.A.
Selenium deficiency inhibits prostacyclin release and enhances production of platelet activating factor by human endothelial cells (1006) 151
Hampp, R., see Mehrle, W. (978) 267
Hampton, S.M., see Al-Ahkras, G. (993) 275
Hanano, M., see Okudaira, N.-I. (981) 1
Hanano, M., see Yachi, K. (978) 1
Hanasaki, K. and Arita, H.
A common binding site for primary prostanoids in vascular smooth muscles: a definitive discrimination of the binding for thromboxane A_2/prostaglandin H_2 receptor agonist from its antagonist (1013) 28
Hanazawa, S., Amano, S., Hamano, A., Katoh, H., Honda, T., Takada, M., Hirose, S. and Kitano, S.
An Epstein-Barr virus-transformed B cell line produces autoregulatory interleukin-1 that regulates bone remodeling (1012) 57
Handa, T., see Matsuzaki, K. (980) 371
Handa, T., see Matsuzaki, K. (981) 130
Handel, T., see Roerdink, F.H. (980) 234
Handley, C.J., see Bolis, S. (993) 157
Hanke, W., see Keller, F. (982) 89
Hankovszky, H.O., see Esmann, M. (978) 209
Hannemann, H., see Locher, M. (1003) 196
Hannink, M. and Donoghue, D.J.
Structure and function of platelet-derived growth factor (PDGF) and related proteins (989) 1
Hans, H., see Bartel, D. (985) 355
Hansbrough, J.R., see Holtzman, M.J. (1003) 204
Hansen, C., see Allen, T.M. (981) 27
Hansen, C.A., Inubushi, T., Williamson, M.T. and Williamson, J.R.
Partial purification of inositol polyphosphate 1-phosphomonoesterase with characterization of its substrates and products by nuclear magnetic resonance spectroscopy (1001) 134
Hansen, G.H., see Afzelius, P. (979) 231
Hansen, M. and Nexø, E.
Isoelectric focusing of apo- and holo-transcobalamin present in human blood. Identification of a protein complexing with transcobalamin (992) 209
Hansen, O.
Characterization of fatty acid interaction with ouabain and vanadate binding to $(Na^+ + K^+)$-activated ATPase (986) 130
Hanzlik, C., see Guard-Friar, D. (973) 118
Hara, Y., see Satoh, K. (994) 104
Harab, R.C. and Mourão, P.A.S.
Increase of chondroitin 4-sulfate concentration in the endochondral ossification cartilage of normal dogs (992) 237
Harada, K., see Fujii, N. (999) 239
Harada, M., see Matsuzaki, K. (981) 130
Harada, S., see Abei, M. (995) 279

Haratz, D., see Stein, O. (1003) 115
Haraux, F., see Bizouarn, T. (974) 104
Hardeman, D. and Van den Bosch, H.
Topography of ether phospholipid biosynthesis (1006) 1
Hardie, D.G., see Carling, D. (1012) 81
Hardie, D.G., see MacKintosh, R.W. (1002) 114
Harding, J.J., see Ibrahim, J. (992) 9
Harding, P.G.R., see Chung, J. (1002) 348
Hardingham, T.E., see Mow, V.C. (992) 201
Hargreaves, K.M. and Clandinin, M.T.
Co-ordinate control of CDP-choline and phosphatidylethanolamine methyltransferase pathways for phosphatidylcholine biosynthesis occurs in response to change in diet fat (1001) 262
Harig, J.M., see Ramaswamy, K. (981) 193
Haris, P.I., Coke, M. and Chapman, D.
Fourier transform infrared spectroscopic investigation of rhodopsin structure and its comparison with bacteriorhodopsin (995) 160
Haris, P.I., see Jackson, M. (998) 75
Harkness, R.A., see Wajner, M. (991) 79
Harms-Ringdahl, M., see Vaca, C.E. (1001) 35
Harnois, I., see Maget-Dana, R. (981) 309
Harrington, W.F., see Anfinsen, C.B. (1000) 197
Harris, D.A.
Azide as a probe of co-operative interactions in the mitochondrial F_1-ATPase (974) 156
Harris, H.F., see Codrington, J.F. (1009) 87
Harris, M.S., see Ramaswamy, K. (981) 193
Harris, S.J. and Winzor, D.J.
Effect of calcium ion on the interaction of aldolase with rabbit muscle myofibrils (999) 95
Harrison, J.P., see Clague, M.J. (981) 43
Hart, I.R., Goode, N.T. and Wilson, R.E.
Molecular aspects of the metastatic cascade (989) 65
Hartl, F.-U., Pfanner, N., Nicholson, D.W. and Neupert, W.
Mitochondrial protein import (988) 1
Hartmanis, M., see Carlsson-Skwirut, C. (1011) 192
Hartmann, H.-J., see Krauter, B. (1013) 212
Hartshorn, R.T., see Gadsby, P.M.A. (994) 37
Hartwig, J.H. and Janmey, P.A.
Stimulation of a calcium-dependent actin nucleation activity by phorbol 12-myristate 13-acetate in rabbit macrophage cytoskeletons (1010) 64
Hartzell III, G.W., see Scott, M.P. (989) 25
Harvey, P.J., Palmer, J.M., Schoemaker, H.E., Dekker, H.L. and Wever, R.
Pre-steady-state kinetic study on the formation of Compound I and II of ligninase (994) 59
Hashimoto, F., see Hayashi, H. (991) 310
Hashizume, T., see Ohta, K. (996) 142
Hashizume, T., see Sato, T. (992) 168
Hassinen, I.E., see Kiviluoma, K.T. (974) 274
Hassinen, I.E., see Vuokila, P.T. (974) 219
Hasumi, H. and Ohmori, D.
Studies on the molecular structure of spinach ferredoxin. II. Effects of urea and sodium chloride (996) 173
Hasumi, H., see Ohmori, D. (996) 166
Hata, H., Shimizu, S., Hattori, S. and Yamada, H.
Ketopantoyl-lactone reductase from *Candida parapsilosis*: purification and characterization as a conjugated polyketone reductase (990) 175
Hatano, M., see Ogoma, Y. (997) 188
Hatano, M., see Ohta, M. (1011) 33
Hatano, M., see Shimizu, T. (995) 116
Hatchell, D.L., see Twining, S.S. (992) 181
Hatefi, Y., see Crane, F.L. (1000) 358
Hattori, M., see Kaminogawa, S. (998) 50
Hattori, M.-a. and Wakabayashi, K.
Incompletely processed LH molecules synthesized by rat gonadotrophs treated with inhibitors of oligosaccharide processing (992) 272
Hattori, S., see Hata, H. (990) 175
Hausen, A., see Werner-Felmayer, G. (1012) 140
Hauser, H., see Casal, H.L. (982) 228
Hauser, H., see Lipka, G. (979) 239
Hauska, G., see Nitschke, W. (974) 223
Hausman, R.E., Bonincontro, A., Cametti, C., Santini, M.T., Indovina, P.L. and ElGendy, H.
Rescue of the Li^+-induced delay of embryonic myogenesis in vitro by added inositol (1013) 92
Häussinger, D., see Busshardt, E. (1010) 151
Hauton, J.C., see Martigne, M. (979) 341
Haverkort, W.A., see Marijnen, Y.M.T. (1012) 148
Havsteen, B.H., see Baese, H.-J. (990) 113
Hawgood, S., see Pison, U. (992) 251
Hayaishi, O., see Sugama, K. (1011) 75
Hayakawa, K., see Oizumi, J. (991) 410
Hayashi, A. and Matsubara, T.
A new homologue of phosphonoglycosphingolipid, *N*-methylaminoethylphosphonyltrigalactosylceramide (1006) 89
Hayashi, H., Yoshida, H., Hashimoto, F. and Okazeri, S.
Changes in polyamine-oxidizing capacity of peroxisomes under various physiological conditions in rats (991) 310
Hayashi, H., see Akama, K. (1008) 198
Hayashi, H., see Ohta, M. (1011) 33
Hayashi, H., see Sugama, K. (1011) 75
Hayashi, H., see Watanabe, H. (980) 315
Hayashi, K., see Koide, K. (1005) 65
Hayashi, K., see Shimizu, N. (995) 133
Hayashi, M., Miyoshi, T., Takashina, S. and Unemoto, T.
Purification of NADH-ferricyanide dehydrogenase and NADH-quinone reductase from *Escherichia coli* membranes and their roles in the respiratory chain (977) 62
Hayashi, M., see Izumi, M. (990) 101
Hayashi, M., see Sakai, K. (985) 51
Hayashi, S., see Yashiro, K. (1005) 56
Hayashi, Y., Mimura, K., Matsui, H. and Takagi, T.
Minimum enzyme unit for Na^+/K^+-ATPase is the $\alpha\beta$-protomer. Determination by low-angle laser light scattering photometry coupled with high-performance gel chromatography for substantially simultaneous measurement of ATPase activity and molecular weight (983) 217
Haydon, D.A., see Elliott, A.A. (978) 337
Haydon, D.A., see Elliott, J.R. (988) 257
Hayes, J.D., Milner, S.W. and Walker, S.W.
Expression of glyoxalase, glutathione peroxidase and glutathione *S*-transferase isoenzymes in different bovine tissues (994) 21
Hayn, M., see Mischak, H. (990) 1
He, J.-S., Ruettinger, R.T., Liu, H.-M. and Fulco, A.J.
Molecular cloning, coding nucleotides and the deduced amino acid sequence of $P\text{-}450_{BM\text{-}1}$ from *Bacillus megaterium* (1009) 301
Heath, L.S., see Leinbach, S.S. (1008) 281
Heath, T.D., see Ng, K.-y. (981) 261
Heber, U., see Dietz, K.-J. (984) 57
Hedström, G., see Slotte, J.P. (1005) 303
Hedström, G., see Slotte, J.P. (985) 90
Heemskerk, J.W.M., Feijge, M.A.H., Kalafusz, R. and Hornstra, G.
Influence of dietary fatty acids on membrane fluidity and activation of rat platelets (1004) 252
Heesbeen, E.C., Rijksen, G., Batenburg, J.J., Van Golde, L.M.G. and Staal, G.E.J.
Phosphofructokinase in alveolar type II cells isolated from fetal and adult rat lung (1002) 388
Hefford, M.A. and Kaplan, H.

Chemical properties of the histidine residue of secretin: evidence for a specific intramolecular interaction (998) 267
Hegazy, M.G., Schlender, K.K., Wilson, S.E. and Reimann, E.M.
Inhibitory effect of polycations on phosphorylation of glycogen synthase by glycogen synthase kinase 3 (1011) 198
Heinemann, S.H. and Sigworth, F.J.
Estimation of Na^+ dwell time in the gramicidin A channel. Na^+ ions as blockers of H^+ currents (987) 8
Heinrich, P.C., see Dahlmann, B. (991) 253
Heirwegh, K.P.M., Meuwissen, J.A.T.P., Van den Steen, P. and De Smedt, H.
Modelling of chemical reactions catalysed by membrane-bound enzymes. Determination and significance of the kinetic constants (995) 151
Heitz, F., see Strässle, M. (980) 305
Hejny, P., see Ng, C.F. (1004) 332
Helbig, H., see Korbmacher, C. (985) 67
Helgeland, L., see Tollersrud, O.K. (1010) 35
Helgerson, S.L., see Ross, P.E. (991) 134
Heller, K.B., see Deuticke, B. (982) 53
Heller, R., see Grasso, R.J. (980) 9
Hellingwerf, K.J., see Crielaard, W. (973) 205
Hellingwerf, K.J., see Crielaard, W. (974) 211
Hellman, B., see Ali, L. (1010) 283
Hellman, B., see Grapengiesser, E. (1014) 219
Helmer, K.M., see Lah, T.T. (993) 63
Helmkamp, Jr., G.M., see Nyquist, D.A. (987) 165
Helmkamp, Jr., G.M., see Thomas, P.J. (982) 24
Helwig, J.-J., see Dussaule, J.-C. (1005) 34
Hembry, R.M., see Thomson, B.M. (1014) 125
Hemker, H.C., Choay, J. and Beguin, S.
Free factor Xa is on the main pathway of thrombin generation in clotting plasma (992) 409
Hemming, F.W., see Bolton-Smith, C. (1005) 183
Hemrika, W., see Schoppink, P.J. (974) 192
Henao, F. and Gutierrez-Merino, C.
Inhibition of the sarcoplasmic reticulum ($Ca^{2+} + Mg^{2+}$)-ATPase by Zn (II) (984) 135
Henderson, A., see Goodman, R. (1009) 216
Hendler, R.W., see Westerhoff, H.V. (975) 361
Hendriks, T., see Martens, M.F.W.C. (993) 252
Henrysson, T., Schröder, W.P., Spangfort, M. and Åkerlund, H.-E.
Isolation and characterization of the chlorophyll *a/b* protein complex CP29 from spinach (977) 301
Henrysson, T., see Sundby, C. (975) 277
Henry-Toulmé, N., Seman, M. and Bolard, J.
Interaction of amphotericin B and its N-fructosyl derivative with murine thymocytes: a comparative study using fluorescent membrane probes (982) 245
Henseleit, U., see Deuticke, B. (982) 53
Henshaw, E.C., see Montine, K.S. (1014) 282
Hentschel, M., Miethe, P. and Meyer, H.W.
The phase diagram of 1,2-dipalmitoyl-*sn*-glycero-3-phosphocholine/sucrose in the dry state. Sucrose substitution for water in lamellar mesophases (980) 169
Herbst, R., see Egner, U. (992) 404
Herchuelz, A., see Lebrun, P. (1011) 6
Heremans, K., see Audenaert, R. (996) 110
Heremans, K., see Heremans, L. (999) 192
Heremans, L. and Heremans, K.
Raman spectroscopic study of the changes in secondary structure of chymotrypsin: effect of pH and pressure on the salt bridge (999) 192
Heremans, L., see Audenaert, R. (996) 110
Hermetter, A., Rainer, B., Ivessa, E., Kalb, E., Loidl, J., Roscher, A. and Paltauf, F.
Influence of plasmalogen deficiency on membrane fluidity of human skin fibroblasts: a fluorescence anisotropy study (978) 151
Hermetter, A., see Szolderits, G. (986) 301
Hernández-Arana, A., see Rodríguez-Romero, A. (998) 21
Hernell, O., see Bernbäck, S. (1001) 286
Herrera, L., see Casals, C. (1003) 201
Herrmann, A., see Pratsch, L. (980) 146
Hertelendy, F., see Asbóth, G. (1002) 101
Hervás, M., see Ortega, J.M. (975) 244
Hervatin, F., Benkouka, F., Robert, J.C., Péranzi, G. and Soumarmon, A.
The ontogeny of rat gastric H^+/K^+-ATPase (985) 320
Hervé, M., Debouzy, J.C., Borowski, E., Cybulska, B. and Gary-Bobo, C.M.
The role of the carboxyl and amino groups of polyene macrolides in their interactions with sterols and their selective toxicity. A ^{31}P-NMR study (980) 261
Herve, M., see Goudeau, M. (1014) 14
Herz, F. and Halwer, M.
Modulation of alkaline phosphatases in LoVo, a human colon carcinoma cell line (1013) 259
Herz, J., see Kütt, H. (1009) 229
Herzberg, G.R., see Chernenko, G.A. (1004) 95
Hess, M.L., see Kukreja, R.C. (990) 198
Hessel, B., see Blombäck, B. (997) 96
Hessel, B., see Dyr, J.E. (990) 18
Hessels, J.K.C., see Eker, A.P.M. (990) 80
Hevessy, J., see Szabo Jr., G. (979) 365
Hey, A.W., Browne, C.A., Simpson, R.J. and Thorburn, G.D.
Simultaneous isolation of insulin-like growth factors I and II from adult sheep serum (997) 27
Hibasami, H., see Maekawa, S. (993) 199
Hibino, Y., Yamamura, T. and Sugano, N.
Purification and properties of an endonuclease endogenous to rat-liver nuclei (1008) 287
Hickel, B., see Pin, S. (994) 47
Hicks, D.B., see Rohde, M. (985) 233
Hickson-Bick, D.L.M., see Massey, J.B. (999) 121
Hidalgo, C., see Donoso, P. (978) 8
Hideg, K., see Esmann, M. (978) 209
Hierholzer, K., see Korbmacher, C. (1010) 311
Higuchi, A., see Kominami, S. (985) 293
Higuchi, K., see Ross, R.S. (1004) 29
Higuchi, Y., see Setoguchi, M. (1008) 213
Hikichi, K., see Matsushima, N. (992) 155
Hilden, S.A., Johns, C.A., Guggino, W.B. and Madias, N.E.
Techniques for isolation of brush-border and basolateral membrane vesicles from dog kidney cortex (983) 77
Hiley, C., Bell, J., Hume, R. and Strange, R.
Differential expression of alpha and pi isoenzymes of glutathione *S*-transferase in developing human kidney (990) 321
Hiley, C., see Strange, R.C. (993) 186
Hilgenfeld, R., see Müller-Fahrnow, A. (978) 176
Himeno, S.-i., see Toyoda, H. (1008) 301
Hincha, D.K.
Low concentrations of trehalose protect isolated thylakoids against mechanical freeze-thaw damage (987) 231
Hinds, T.R., see Di Julio, D. (981) 337
Hinduja, I.N., see Puri, C.P. (1011) 176
Hinsch, K.-D., Tychowiecka, I., Gausepohl, H., Frank, R., Rosenthal, W. and Schultz, G.
Tissue distribution of β_1- and β_2-subunits of regulatory guanine nucleotide-binding proteins (1013) 60
Hirabayashi, J., Ayaki, H., Soma, G.-i. and Kasai, K.-i.
Cloning and nucleotide sequence of a full-length cDNA for human 14 kDa β-galactoside-binding lectin (1008) 85
Hirai, H., see Kobayashi, A. (1009) 244
Hiraoka, N., see Dou, D. (1009) 83
Hirasawa, M., Chang, K.-T., Morrow, Jr., K.J. and Knaff, D.B.
Circular dichroism, binding and immunological studies on the

interaction between spinach ferredoxin and glutamate synthase (977) 150
Hirasawa, M., Gray, K.A., Ondrias, M.R., Larsen, R.W., Shaw, R.W., Morrow, Jr., K.J. and Knaff, D.B.
Prosthetic group content and ligand binding properties of a spinach catalase (994) 229
Hirasawa, N., see Ohuchi, K. (1003) 9
Hirasawa, N., see Ohuchi, K. (1013) 86
Hirata, M., Chang, C.-H. and Murad, F.
Stimulatory effects of atrial natriuretic factor on phosphoinositide hydrolysis in cultured bovine aortic smooth muscle cells (1010) 346
Hirayama, K., see Kikuchi, M. (991) 19
Hiriart, M., see Geschwind, J.-F. (1012) 107
Hirogome, T., see Iwasaki, M. (992) 1
Hiromi, K., see Kakitani, M. (996) 76
Hirose, A., see Kawashima, Y. (1005) 123
Hirose, A., see Kawashima, Y. (1006) 214
Hirose, S., see Hanazawa, S. (1012) 57
Hirschbein, L., see Salti, V. (1009) 161
Hirvonen, A.
Ornithine decarboxylase activity and the accumulation of its mRNA during early stages of liver regeneration (1007) 120
Hitchcock, E., see Elworthy, P. (993) 212
Hitzemann, R.J.
Effects of non-electrolyte molecules with anesthetic activity on the physical properties of DMPC multilammelar liposomes (983) 205
Hiwasa, T., see Kageyama, H. (1008) 255
Hiyama, M., see Inouhe, M. (993) 51
Ho, C., Pratt, E.A. and Rule, G.S.
Membrane-bound D-lactate dehydrogenase of *Escherichia coli*: a model for protein interactions in membranes (988) 173
Ho, K.-K., see Tan, S. (973) 111
Hoagland, M.B., Zamecnik, P.C. and Stephenson, M.L.
on 'Intermediate reactions in protein biosynthesis' (1000) 103
Hoagland, M.B.
Commentary by (1000) 103
Hoal-Van Helden, E., see Van Helden, P.D. (1009) 137
Hochman, A., see Goldberg, I. (991) 330
Hochstrasser, K., see Rasp, G. (999) 335
Hocke, G., see Saïle, R. (992) 407
Hocke, G., see Steinmetz, A. (1006) 173
Hodges, M., Cornic, G. and Briantais, J.-M.
Chlorophyll fluorescence from spinach leaves: resolution of non-photochemical quenching (974) 289
Hoeg, J.M., see Ross, R.S. (1004) 29
Hoek, F.J., see Groen, A.K. (1006) 179
Hoek, J.B., see Stubbs, C.D. (986) 89
Hoenders, H.J., see Van den Oetelaar, P.J.M. (995) 82
Hoenders, H.J., see Van den Oetelaar, P.J.M. (995) 91
Hofer, F., Weissinger, E., Mischak, H., Messner, R., Meixner-Monori, B., Blaas, D., Visser, J. and Kubicek, C.P.
A monoclonal antibody against the alkaline extracellular β-glucosidase from *Trichoderma reesei*: reactivity with other *Trichoderma* β-glucosidases (992) 298
Hofer, F., see Mischak, H. (990) 1
Hoff, A.J., see Evelo, R.G. (973) 428
Hoff, A.J., see Lous, E.J. (974) 88
Hoffmann, G.E., see Kozumplik, V. (1002) 395
Hofmann, T., see Fisher, J.H. (995) 225
Hofstra, R.M.W., see Neuteboom, B. (998) 126
Hogness, D.S., Cohn, M. and Monod, J.
on 'Studies on the induced synthesis of β-galactosidase in *Escherichia coli*: The kinetics and mechanism of sulfur incorporation' (1000) 109
Hokin, L.E. and Hokin, M.R.
on 'Effects of acetylcholine on the turnover of phosphoryl units in individual phospholipids of pancreas slices and brain cortex slices' (1000) 465
Hokin, L.E. and Hokin-Neaverson, M.
Commentary by (1000) 465
Hokin, M.R., see Hokin, L.E. (1000) 465
Hokin-Neaverson, M., see Hokin, L.E. (1000) 465
Holland, I.B., see Casaregola, S. (1008) 45
Holland, R., see Lints, T. (1013) 287
Hollander, C.S., see Audhya, T. (995) 10
Hollander, G., see Stein, O. (1003) 175
Hollander, G., see Stein, O. (1006) 144
Hollek, A.M., see Stępień, K.B. (997) 49
Holley, R.W., Doctor, B.P., Merrill, S.H. and Saad, F.M.
on 'Countercurrent distribution of rat-liver "soluble"-fraction ribonucleic acids' (1000) 99
Holley, R.W.
Commentary by (1000) 99
Holloman, T.L., Schwartz, M., Carrasquer, G., Rehm, W.S. and Dinno, M.A.
Evidence for a simple Cl^- conductance pathway in nutrient membrane of frog stomach (980) 367
Holm, C., Belfrage, P. and Fredrikson, G.
Human adipose tissue hormone-sensitive lipase: identification and comparison with other species (1006) 193
Holman, G.D., see Eisenthal, R. (985) 81
Holmes, R.S., see Algar, E.M. (995) 168
Holoubek, V., see White, J.W. (1009) 287
Holquín, J.A., see Chávez, E. (986) 27
Holt, J.C., see Niewiarowski, S. (983) 91
Holtzman, M.J., Pentland, A., Baenziger, N.L. and Hansbrough, J.R.
Heterogeneity of cellular expression of arachidonate 15-lipoxygenase: implications for biological activity (1003) 204
Holub, B.J., see Yeo, Y.K. (1001) 25
Holub, B.J., see Yeo, Y.K. (1006) 9
Holzwarth, A.R., see Griebenow, K. (973) 235
Honda, A., Iwai, T. and Mori, Y.
Insulin-like growth factor I (IGF-I) enhances hyaluronic acid synthesis in rabbit pericardium (1014) 305
Honda, T., see Hanazawa, S. (1012) 57
Honkakoski, P., see Usanov, S.A. (998) 189
Hönlinger, C. and Kubicek, C.P.
Metabolism and compartmentation of α-aminoadipic acid in penicillin-producing strains of *Penicillium chrysogenum* (993) 204
Honn, K.V., see Lah, T.T. (993) 63
Hooper, W.C., Abraham, R.T., Ashendel, C.L. and Woloschak, G.E.
Differential responsiveness to phorbol esters correlates with differential expression of protein kinase C in KG-1 and KG-1a human myeloid leukemia cells (1013) 47
Hope, A.B. and Rich, P.R.
Proton uptake by the chloroplast cytochrome *bf* complex (975) 96
Hope, A.B., see Chow, W.S. (973) 105
Hope, M.J., see Eastman, S.J. (981) 178
Hope, M.J., see Nayar, R. (986) 200
Hopkins, G.J., see Clay, M.A. (1002) 173
Horai, S., see Tanaka-Yamamoto, T. (1009) 151
Horák, J., see Sychrová, H. (978) 203
Hori, K., see Arai, Y. (1007) 91
Hori, K., see Sakakibara, M. (1007) 334
Hori, K., see Sugimoto, Y. (992) 400
Horie, S., see Sugano, S. (994) 235
Horii, S., see Kawashima, Y. (1005) 123
Horiuchi, I., see Koide, K. (1005) 65
Horiuchi, R., see Sorimachi, K. (1010) 72
Horiuchi, S., see Takata, K. (984) 273
Horiuchi, S., see Takata, K. (986) 18
Horne, D.S., see Dalgleish, D.G. (991) 383
Hornstra, G., see Heemskerk, J.W.M. (1004) 252

Horowitz, P.M., see King, R.J. (1001) 294
Horrocks, L.A., see Jurkowitz-Alexander, M. (1002) 203
Horváth, G., see Rózsa, Z. (973) 350
Horváth, I., Vigh, L., Pali, T. and Thompson, Jr., G.A.
Effect of catalytic hydrogenation of *Tetrahymena* ciliary phospholipid fatty acids on ciliary phospholipase A activity (1002) 409
Horváth, I., see Vigh, L. (979) 361
Horváth, L.I., see Li, G. (987) 187
Horváth, L.I., see Páli, T. (984) 128
Hosaka, K., see Mori, H. (1003) 98
Hou, C., see Bragg, P.D. (974) 24
Houadjeto, M., see Béchet, J.-J. (996) 199
Houben, A., see Remy, E. (1005) 87
Houdret, N., Ramphal, R., Scharfman, A., Perini, J.-M., Filliat, M., Lamblin, G. and Roussel, P.
Evidence for the in vivo degradation of human respiratory mucins during *Pseudomonas aeruginosa* infection (992) 96
Houghton, J.D., see Suckling, K.E. (1002) 401
Houslay, M.D., see Davies, S.-A. (1013) 173
Houssier, C., see Pico, G.A. (999) 128
Houstek, J., see Baracca, A. (976) 77
Houtsmuller, U.M.T., see Zevenbergen, J.L. (1002) 312
Howard, E.F., see Lanclos, K.D. (1008) 109
Howard, S., see Cohen, S.G. (997) 167
Howie, A.F., see Strange, R.C. (993) 186
Hoyer-Hansen, G., see Vallon, O. (975) 132
Hrinyo-Pavlina, T.P., see Roeske, R.W. (982) 223
Hsu, B.-D., Lee, Y.-S. and Jang, Y.-R.
A method for analysis of fluorescence induction curve from DCMU-poisoned chloroplasts (975) 44
Hsu, M.-J., see Tsai, A.-l. (993) 74
Hsu, R.Y., see Tian, W.-X. (998) 310
Hsuanyu, Y., Wedler, F.C., Middleton, S.A. and Kantrowitz, E.R.
Kinetic consequences of site-specific mutation of Glu-239 → Gln in *E. coli* aspartate transcarbamylase: comparison with catalytic subunits and Phe-240 mutant enzyme (995) 54
Hu, H., Sosnovsky, G., Li, S.W., Rao, N.U.M., Morse II, P.D. and Swartz, H.M.
Development of nitroxides for selective localization inside cells (1014) 211
Hu, H., see Iannone, A. (991) 90
Hu, L.-M., Kemp, S.F., Elders, M.J. and Smith, W.G.
Metabolic effects of forskolin in chick chondrocytes (1013) 294
Hua, Q.-X., Chen, Y.-J., Wang, C.-C., Wang, D.-C. and Roberts, G.C.K.
High resolution ^{1}H-NMR studies of Des-(B26–B30)-insulin; assignment of resonances and properties of aromatic residues (994) 114
Huang, E.M.
Agonist-enhanced palmitoylation of platelet proteins (1011) 134
Huang, J.R., see Bailin, G. (995) 122
Huang, L., see Collins, D. (987) 47
Huang, L., see Liu, D. (981) 254
Huang, L., see Pinnaduwage, P. (985) 33
Huang, L., see Pinnaduwage, P. (986) 106
Huang, M., Biggs, D.R., Clark-Walker, G.D. and Linnane, A.W.
on 'Chloramphenicol inhibition of the formation of particulate mitochondrial enzymes of *Saccharomyes cerevisiae*' (1000) 365
Huang, T.-F., see Teng, C.-M. (990) 315
Huang, T.-F., see Teng, C.-M. (992) 258
Hubbard, J.A.M., Corrie, A.R., Nugent, J.H.A. and Evans, M.C.W.
Properties of the Photosystem II electron acceptor complex of *Phormidium laminosum* (977) 91
Hubbard, M.J., see MacDougall, L.K. (1010) 218
Huberman, J.A., see Umek, R.M. (1007) 1
Hudig, H., see McEwan, A.G. (973) 308
Hudson, A.R., see Magos, L. (991) 85
Huebers, E., see Huebers, H.A. (991) 30
Huebers, H.A., Huebers, E., Josephson, B. and Csiba, E.
A highly efficient chemical isolation procedure for the rat placental transferrin receptor (991) 30
Huff, M.W., see Khosla, P. (1002) 157
Huggins, J.P., see Fowler, C. (980) 348
Hughes, B.P. and Barritt, G.J.
Inhibition of the liver cell receptor-activated Ca^{2+} inflow system by metal ion inhibitors of voltage-operated Ca^{2+} channels but not by other inhibitors of Ca^{2+} inflow (1013) 197
Hughes, C., see Mow, V.C. (992) 201
Hughes, J.H., see Turk, J. (1001) 16
Hughes, K. and Crawford, N.
Reversible electropermeabilisation of human and rat blood platelets: evaluation of morphological and functional integrity 'in vitro' and 'in vivo' (981) 277
Hui, D.Y., see Camulli, E.D. (1005) 177
Hui, D.Y., see Kissel, J.A. (1006) 227
Huiskamp, W.J., see Duysens, L.N.M. (1000) 395
Huisman, T.H.J., see Codrington, J.F. (1009) 87
Huisman, T.H.J., see Lanclos, K.D. (1008) 109
Hume, R., see Hiley, C. (990) 321
Hume, R., see Strange, R.C. (993) 186
Hung, M.-L., see Teng, C.-M. (992) 258
Hunt, G.R.A., see Kaszuba, M. (985) 106
Hunt, J.A., see Ingram, V.M. (1000) 147
Hunt, J.B., see Ubom, G.A. (997) 1
Hunter, C.N., Van Grondelle, R. and Van Dorssen, R.J.
The construction and properties of a mutant of *Rhodobacter sphaeroides* with the LH1 antenna as the sole pigment protein (973) 383
Hur, K.C. and Louis, C.F.
Regional distribution of the enzymes and substrates mediating the action of cAMP in the mammalian lens (1010) 56
Hurley, J.K., see Fluhler, E.N. (990) 269
Hurwitz, S., see Rosenberg, J. (1014) 189
Huschilt, J.C., Millman, B.M. and Davis, J.H.
Orientation of α-helical peptides in a lipid bilayer (979) 139
Husebye, E.S. and Flatmark, T.
Purification and kinetic properties of a soluble phosphatidylinositol-4-phosphate kinase of the bovine adrenal medulla with emphasis on its inhibition by calcium ions (1010) 250
Hussain, M.M., Zanni, E.E., Kelly, M. and Zannis, V.I.
Synthesis, modification, and flotation properties of rat hepatocyte apolipoproteins (1001) 90
Huston, G.E., see Patton, S. (980) 333
Hutchens, T.W., Magnuson, J.S. and Yip, T.-T.
Rapid purification of porcine colostral whey lactoferrin by affinity chromatography on single-stranded DNA-agarose . Characterization, amino acid composition and N-terminal amino acid sequence (999) 323
Hutchins, D., see Steel, C.M. (989) 133
Hutchinson, B., see Audhya, T. (995) 10
Hutchinson, F.J., Francis, S.E., Lyle, I.G. and Jones, M.N.
The characterisation of liposomes with covalently attached proteins (978) 17
Hutchinson, F.J., Francis, S.E., Lyle, I.G. and Jones, M.N.
The integrity of proteoliposomes adsorbed on a biosurface (987) 212
Huterer, S.J. and Wherrett, J.R.
Formation of bis(monoacylglycero)phosphate by a macrophage transacylase (1001) 68
Hvidt, A., see Anfinsen, C.B. (1000) 197
Hwang, D.H., see Hagar, A.F. (1005) 162
Hwu, H.-R., see White, J.W. (1009) 287

I

Iadarola, P., see Ferri, G. (995) 103

Iannone, A., Hu, H., Tomasi, A., Vannini, V. and Swartz, H.M.
Metabolism of aqueous soluble nitroxides in hepatocytes: effects of cell integrity, oxygen, and structure of nitroxides (991) 90

Iantomasi, T., see Vincenzini, M.T. (987) 29

Ibdah, J.A., Krebs, K.E. and Phillips, M.C.
The surface properties of apolipoproteins A-I and A-II at the lipid/water interface (1004) 300

Ibrahim, J. and Harding, J.J.
Pinpointing the sites of hydroxylysine glycosides in peptide α1-CB7 of bovine corneal collagen, and their possible role in determining fibril diameter and thus transparency (992) 9

Ichikawa, A., see Yoshimura, S. (981) 69

Ichikawa, M., see Yoshimura, A. (992) 307

Ichikawa, T., see Yamakawa, M. (1009) 156

Ichiyoshi, Y., see Yamamoto, M. (1008) 322

Ieiri, T., see Sorimachi, K. (1010) 72

Iga, F., see Yoshinari, K. (1010) 28

Iga, T., see Okudaira, N.-I. (981) 1

Iga, T., see Yachi, K. (978) 1

Iglesias, R., see Ferreras, J.M. (979) 375

Iida, Y.
Quantification analysis of 5′-splice signal sequences in mRNA precursors. Mutations in rabbit β-globin gene (1007) 270

Iizasa, T., see Taira, M. (1007) 203

Iizuka, Y., see Ishida, F. (1004) 117

IJzerman, A.P., Menkveld, G.J. and Thedinga, K.H.
A refined method for the photoaffinity labelling of the nitrobenzylthioinosine-sensitive nucleoside transport protein: Application to cell membranes of calf lung tissue (979) 153

Ikeda, H., see Sugano, S. (994) 235

Ikeda, S.-i., see Yoshimura, A. (992) 307

Ikeda, Y., Takagi, A. and Yamamoto, A.
Purification and characterization of lipoprotein lipase and hepatic triglyceride lipase from human postheparin plasma: production of monospecific antibody to the individual lipase (1003) 254

Ikeda, Y., see Yachi, K. (978) 1

Ikegami, S., see Isomura, H. (1007) 343

Ikejiri, K., see Ueno, T. (1009) 27

Ikeuchi, M., see Tamura, N. (973) 281

Ikushiro, S.-i., Kominami, S. and Takemori, S.
Adrenal cytochrome $P\text{-}450_{11\beta}$-proteoliposomes catalyzing aldosterone synthesis: preparation and characterization (984) 50

Ilundáin, A., see Montero, M.C. (979) 269

Imai, K., see Neya, S. (996) 226

Imaizumi, K., Sakono, M., Mawatari, K., Murata, M. and Sugano, M.
Effect of phosphatidylethanolamine and its constituent base on the metabolism of linoleic acid in rat liver (1005) 253

Imura, N., see Toyoda, H. (1008) 301

Inaba, M. and DeLuca, H.F.
Stabilization of 1,25-dihydroxyvitamin D-3 receptor in the human leukemia cell line, HL-60, with diisopropylfluorophosphate (1010) 20

Inagaki, K., see Dou, D. (1009) 83

Inagaki, K., see Sugio, T. (973) 250

Inagaki, S., see Kobayashi, M. (1009) 129

Indiveri, C., Capobianco, L., Krämer, R. and Palmieri, F.
Kinetics of the reconstituted dicarboxylate carrier from rat liver mitochondria (977) 187

Indiveri, C., Dierks, T., Krämer, R. and Palmieri, F.
Kinetic discrimination of two substrate binding sites of the reconstituted dicarboxylate carrier from rat liver mitochondria (977) 194

Indovina, P.L., see Hausman, R.E. (1013) 92

Infante, J., see Wang, S.R. (1002) 302

Infante, R., see Wang, S.R. (1002) 302

Ingebritsen, T.S., see Ingebritsen, V.M. (1012) 1

Ingebritsen, V.M. and Ingebritsen, T.S.
Immobilized inhibitor-1 binds and inhibits protein phosphatase 1 (1012) 1

Ingram, V.M. and Hunt, J.A.
on 'The comparison of normal human and sickle-cell haemoglobins by 'fingerprinting'.' (1000) 147

Ingram, V.M.
A case of sickle-cell anaemia: a commentary by (1000) 147

Ingram, V.M., see Friedrich, T.D. (992) 41

Inoue, K., see Murakami, M. (1005) 270

Inoue, K., see Naito, M. (985) 147

Inoue, M., see Sugi, K. (987) 217

Inoue, M., see Sugi, K. (991) 405

Inoue, S., see Kominami, S. (985) 293

Inoue, Y., see Inui, T. (973) 147

Inoue, Y., see Ono, T.-a. (973) 443

Inoue, Y., see Seibert, M. (974) 185

Inoue, Y., see Tamura, N. (973) 281

Inoue, Y., see Tamura, N. (976) 173

Inouhe, M., Hiyama, M., Tohoyama, H., Joho, M. and Murayama, T.
Cadmium-binding protein in a cadmium-resistant strain of *Saccharomyces cerevisiae* (993) 51

Inouye, K.
Regulation of cytoplasmic pH in the differentiating cell types of the cellular slime mould *Dictyostelium discoideum* (1012) 64

Inubushi, T., see Hansen, C.A. (1001) 134

Inui, T., Kawamori, A., Kuroda, G., Ono, T.-a. and Inoue, Y.
EPR study of charge recombination via D^+ in the S_2 state of oxygen evolving Photosystem II (973) 147

Ioneda, T., see De Almeida, E.T. (1005) 45

Iosifidu, M., see Srebreva, L. (1008) 346

Ipsen, J.H., see Cruzeiro-Hansson, L. (979) 166

Iritani, N., see Katsurada, A. (1004) 103

Iritani, N., see Katsurada, A. (1006) 104

Isaacson, R.A., see Lubitz, W. (977) 227

Isaacson, Y., Riehl, T.E. and Stenson, W.F.
Nonelectrolyte permeability of liposomes of hydroxyfatty acid-containing phosphatidylcholines (986) 295

Isayev-Ivanov, V.V., see Bresler, V.M. (982) 288

Ishida, F., Sato, A., Iizuka, Y., Kitani, K., Sawasaki, Y. and Kamei, T.
Effects of MK-733 (simvastatin), an inhibitor of 3-hydroxy-3-methylglutaryl coenzyme A reductase, on intestinal acylcoenzyme A:cholesterol acyltransferase activity in rabbits (1004) 117

Ishihara, H., see Tamiya-Koizumi, K. (1002) 182

Ishihara, K., see Suyemitsu, T. (999) 24

Ishii, T., see Sato, H. (983) 259

Ishizaki, Y., see Suzuki, Y. (1012) 135

Ishizu, K., see Mukai, K. (991) 276

Iskander, N., see Rothman, S.S. (991) 484

Islam, K.
GTP-induced chloroplast membrane protein phosphorylation and Photosystem II fluorescence changes: evidence for multiple protein kinase activities (974) 261

Islam, K.
Thylakoid protein phosphorylation and associated Photosystem II fluorescence changes: a study with the ATP analogue adenosine-5-*O*-thiotriphosphate (ATP-γ-S) (974) 267

Isobe, T., see Kocha, T. (991) 56

Isohashi, F., see Nakanishi, Y. (996) 209

Isomaa, B., Engblom, A.C. and Åkerman, K.E.O.
Interaction of aliphatic amphiphiles with calmodulin and cyclic nucleotide phosphodiesterase (998) 131

Isomaa, B., see Hägerstrand, H. (982) 179

Isomura, H., Itoh, N. and Ikegami, S.
RNA synthesis in starfish embryos: developmental consequences of its inhibition by formycin (1007) 343
Israel, M., see Burke, T.G. (982) 123
Issinger, O.-G., see Schneider, H.R. (1014) 98
Ito, A., see Ojima, Y. (1011) 61
Ito, M., see Fukaya, N. (1004) 108
Ito, S., see Kato, S. (991) 36
Ito, S., see Sugama, K. (1011) 75
Ito, Y., see Kitagawa, S. (1011) 52
Itoh, N., see Isomura, H. (1007) 343
Itoh, S., see Sekine, S. (1009) 117
Ivanetich, K.M. and Goold, R.D.
A rapid equilibrium random sequential bi-bi mechanism for human placental glutathione *S*-transferase (998) 7
Ivanetich, K.M., see Corrigall, A.V. (991) 399
Ivanov, I.I., see Semin, B.K. (975) 239
Ivessa, E., see Hermetter, A. (978) 151
Iwabuchi, K. and Yamashita, T.
Purification and partial characterization of platelet-derived adherence-inhibiting factor in guinea pig (999) 183
Iwahara, S., see Takegawa, K. (990) 98
Iwahara, S., see Takegawa, K. (991) 431
Iwai, T., see Honda, A. (1014) 305
Iwasaki, M., Saito, H., Yamamoto, M., Korach, K.S., Hirogome, T. and Sugano, H.
Purification of heat shock protein 90 from calf uterus and rat liver and characterization of the highly hydrophobic region (992) 1
Iwashima, A., see Yamada, R.-h. (990) 325
Iwata, H., see Fukaya, N. (1004) 108
Izumi, M., Yamada, K.M. and Hayashi, M.
Vitronectin exists in two structurally and functionally distinct forms in human plasma (990) 101
Izumi, Y., see Krenn, B.E. (998) 63

J

Jaakkola, O., Solakivi, T., Ylä-Herttuala, S. and Nikkari, T.
Receptor-mediated binding and degradation of subfractions of human plasma low-density lipoprotein by cultured fibroblasts (1005) 118
Jabalquinto, A.M. and Cardemil, E.
Substrate binding order in mevalonate 5-diphosphate decarboxylase from chicken liver (996) 257
Jabalquinto, A.M., see Alvear, M. (994) 7
Jachertz, D., see Kleinschmidt, A.K. (1000) 35
Jackson, B., see Suckling, K.E. (1002) 401
Jackson, J.B., see Jones, M.R. (975) 34
Jackson, J.B., see McEwan, A.G. (973) 308
Jackson, M., Haris, P.I. and Chapman, D.
Conformational transitions in poly(L-lysine): studies using Fourier transform infrared spectroscopy (998) 75
Jackson, M., see Villalain, J. (978) 305
Jacob, W., see Biermans, W. (974) 74
Jacobs, S., see Takemoto, L. (995) 259
Jacobs, V.N., see McMillan, R.M. (1005) 170
Jacobsen, C., see Røigaard-Petersen, H. (984) 231
Jacobson, B.S., see Shiozawa, J.A. (980) 361
Jacques, P., see De Duve, C. (1000) 317
Jacquot, R., see Trentesaux, C. (1012) 161
Jaffe, E.A., see Hampel, G. (1006) 151
Jagendorf, A.T., see Avron, M. (1000) 381
Jagendorf, A.T., see Larson, E.M. (973) 67
Jagendorf, A.T., see Larson, E.M. (973) 78
Jain, M.K. and Berg, O.G.
The kinetics of interfacial catalysis by phospholipase A_2 and regulation of interfacial activation: hopping versus scooting (1002) 127
Jain, M.K. and Rogers, J.
Substrate specificity for interfacial catalysis by phospholipase A_2 in the scooting mode (1003) 91
Jain, M.K., Yu, B.-Z. and Kozubek, A.
Binding of phospholipase A_2 to zwitterionic bilayers is promoted by lateral segregation of anionic amphiphiles (980) 23
Jain, M.K., see Gargouri, Y. (1006) 137
Jain, M.K., see Yu, B.-Z. (980) 15
James, R.W., Proudfoot, A. and Pometta, D.
Immunoaffinity fractionation of high-density lipoprotein subclasses 2 and 3 using anti-apolipoprotein A-I and A-II immunosorbent gels (1002) 292
Jameson, B.A., see Kieber-Emmons, T. (989) 281
Jameson, D.M., Thomas, V. and Zhou, D.M.
Time-resolved fluorescence studies on NADH bound to mitochondrial malate dehydrogenase (994) 187
Jameson, D.M., see Jullian, C. (997) 206
Janecek, E.J., see Meryhew, N.L. (991) 470
Jang, Y.-R., see Hsu, B.-D. (975) 44
Janmey, P.A., see Hartwig, J.H. (1010) 64
Jansen, G., Westerhof, G.R., Rijksen, G. and Schornagel, J.H.
Interaction of *N*-hydroxy(sulfo)succinimide active esters with the reduced folate/methotrexate transport system from human leukemic CCRF-CEM cells (985) 266
Jansen, H., Lammers, R., Baggen, M.G.A., Wouters, N.M.H. and Birkenhäger, J.C.
Circulating and liver-bound salt-resistant hepatic lipases in the golden hamster (1001) 44
Jansen, H., see Verhoeven, A.J.M. (1001) 239
Janson, K., see Brändén, R. (995) 75
Jansz, H.S., see Bovenberg, R.A.L. (1008) 223
Janzen, E.G., see Towner, R.A. (993) 92
Jardillier, J.-C., see Trentesaux, C. (1012) 161
Jaroni, H.-W., see Jopski, B. (978) 79
Jarrell, H.C., see Auger, M. (981) 351
Jarrell, H.C., see Carrier, D. (983) 100
Jarrell, H.C., see Makriyannis, A. (986) 141
Jarvis, S.M.
Characterization of sodium-dependent nucleoside transport in rabbit intestinal brush-border membrane vesicles (979) 132
Jauch, P., see Von Blankenfeld, G. (980) 385
Jault, J.-M., see Falson, P. (975) 119
Jay, G., see Napolitano, L.A. (989) 153
Jean, C., see Guderley, H. (977) 87
Jeannesson, P., see Trentesaux, C. (1012) 161
Jeener, R., see Brachet, J. (1000) 1
Jeffrey, G.A., see Chung, Y.J. (985) 300
Jeffrey, K.R., Boggs, J.M., Koshy, K.M. and Tulloch, A.P.
The ordering and dynamics of the terminal methyl group on the lignoceric acid chain in cerebroside sulfate (986) 241
Jeffrey, P.D., see Treacy, G.B. (990) 263
Jekel, P.A., see Neuteboom, B. (998) 126
Jelicks, L.A., Weaver, J., Pollack, S. and Gupta, R.K.
NMR studies of intracellular free calcium, free magnesium and sodium in the guinea pig reticulocyte and mature red cell (1012) 261
Jellali, A., see Launay, J.F. (996) 103
Jeminet, G., see Delort, A.-M. (1013) 11
Jenness, R., see Patton, S. (980) 333
Jennings, R.C., Zucchelli, G. and Garlaschi, F.M.

The influence of reducing the chlorophyll concentration by photobleaching on energy transfer to artificial traps within Photosystem II antenna systems (975) 29
Jensen, J. and Nørby, J.G.
Thallium binding to native and radiation-inactivated Na^+/K^+-ATPase (985) 248
Jensen, P.B., see Afzelius, P. (979) 231
Jensen, P.H., Nykjær, A., Andreasen, P.A., Lund, L.R., Åstedt, B., Lecander, I. and Gliemann, J.
Urokinase binds to a plasminogen activator inhibitor type-2-like molecule in placental microvillous membranes (986) 135
Jensen, R.K., see Bank, P.A. (990) 306
Jensen, R.T., see Stark, H.A. (1010) 145
Jerebtsova, M.A., see Bresler, V.M. (982) 288
Jernigan, R.L., see Nussinov, R. (1008) 329
Jerrell, J.P., see Leszczynski, D.E. (1014) 90
Jesaitis, A.J., see Allen, R.A. (991) 123
Jesaitis, A.J., see Cupo, J.F. (982) 31
Jesaitis, A.J., see Quinn, M.T. (987) 83
Jessen, H., see Røigaard-Petersen, H. (984) 231
Jikibara, T., see Takegawa, K. (991) 431
Jin, X.-Z., see Roeske, R.W. (982) 223
Jobe, A., see Lewis, J. (1005) 277
Johanson, C.E., see Murphy, V.A. (979) 187
Johansson, A., see Dahlgren, C. (1010) 41
Johns, C.A., see Hilden, S.A. (983) 77
Johnson, P.M., see Kenton, P. (1014) 271
Johnson, T.B., see Rhee, M.S. (1011) 122
Johnstone, A., see McNerney, R. (1009) 185
Joho, M., see Inouhe, M. (993) 51
Jokinen, O., see Guéant, J.L. (992) 281
Joliot, A., see Joliot, P. (975) 336
Joliot, A., see Joliot, P. (975) 355
Joliot, P. and Joliot, A.
Characterization of linear and quadratic electrochromic probes in *Chlorella sorokiniana* and *Chlamydomonas reinhardtii* (975) 355
Joliot, P., Verméglio, A. and Joliot, A.
Evidence for supercomplexes between reaction centers, cytochrome c_2 and cytochrome bc_1 complex in *Rhodobacter sphaeroides* whole cells (975) 336
Joliot, P., see Lavergne, J. (975) 346
Joll, C.A., see Mortimer, B.C. (1002) 359
Jolly, R.D., see Hall, N.A. (993) 245
Jona, I., see Buchet, R. (983) 167
Jona, I., see Keresztes, T. (984) 326
Jonas, A.J. and Speller, R.J.
Stearylamine permeabilizes the lysosomal membrane to cystine and sialic acid (984) 257
Jonas, J., see Winter, R. (982) 85
Jones, C.S., see Dailey, H.A. (999) 7
Jones, L.R., see Simmerman, H.K.B. (997) 322
Jones, M.N., see Douen, A.G. (1010) 363
Jones, M.N., see Hutchinson, F.J. (978) 17
Jones, M.N., see Hutchinson, F.J. (987) 212
Jones, M.R. and Jackson, J.B.
Proton release by the quinol oxidase site of the cytochrome b/c_1 complex following single turnover flash excitation of intact cells of *Rhodobacter capsulatus* (975) 34
Jones, P., see Strange, R.C. (993) 186
Jones, R., see Quesada, P. (1007) 167
Joó, F., see Vigh, L. (979) 361
Jopski, B., Pirkl, V., Jaroni, H.-W., Schubert, R. and Schmidt, K.-H.
Preparation of hemoglobin-containing liposomes using octyl glucoside and octyltetraoxyethylene (978) 79
Jordan, F., see Greenfield, N.J. (995) 246
Jørgensen, K.H., see Rose, K. (998) 297
Jortner, J., see Bixon, M. (977) 273
Josephson, B., see Huebers, H.A. (991) 30
Joshi, J.G., see Sczekan, S.R. (990) 8
Joshi, U.M., Rao, P., Kodavanti, S., Lockard, V.G. and Mehendale, H.M.
Fluorescence studies on binding of amphiphilic drugs to isolated lamellar bodies: relevance to phospholipidosis (1004) 309
Jovall, P.-Å., see Thurin, J. (1002) 267
Jovanovic, S.V. and Simic, M.G.
The DNA guanyl radical: kinetics and mechanisms of generation and repair (1008) 39
Joyce, P.B.M. and Gray, M.W.
Nucleotide sequence of a wheat mitochondrial lysine tRNA gene (1008) 355
J. Rosoff, W., see Khoo, J.C. (1012) 215
Juguelin, H., see Bertho, P. (978) 91
Jullian, C., Brunet, J.E., Thomas, V. and Jameson, D.M.
Time-resolved fluorescence studies on protoporphyrin IX-apohorseradish peroxidase (997) 206
Julliard, J.H., see Tchouatcha-Tchouassom, J.C. (1009) 121
Juneja, L.R., Kazuoka, T., Goto, N., Yamane, T. and Shimizu, S.
Conversion of phosphatidylcholine to phosphatidylserine by various phospholipases D in the presence of L- or D-serine (1003) 277
Jung, G., see Wille, B. (986) 47
Jung, H., Jung, K. and Kleber, H.-P.
Purification and properties of carnitine dehydratase from *Escherichia coli* – a new enzyme of carnitine metabolization (1003) 270
Jung, K., see Jung, H. (1003) 270
Jung, M.-L., see Bieth, J.G. (994) 64
Jung, R.T., see Pears, J. (993) 224
Juretić, D., see Westerhoff, H.V. (975) 361
Jurkowitz-Alexander, M., Ebata, H., Mills, J.S., Murphy, E.J. and Horrocks, L.A.
Solubilization, purification and characterization of lysoplasmalogen alkenylhydrolase (lysoplasmalogenase) from rat liver microsomes (1002) 203
Justin, A.M., Demandre, C. and Mazliak, P.
Molecular species synthesized by phosphatidylinositol synthases from potato tuber, pea leaf and soya bean (1005) 51
Jy, W., Fregien, N., Bourguignon, G.J. and Bourguignon, L.Y.W.
Role of Ca^{2+} in the regulation of hormone receptor exposure during lymphocyte activation (983) 153

K

Kabanov, A.V., Nametkin, S.N., Evtushenko, G.N., Chernov, N.N., Klyachko, N.L., Levashov, A.V. and Martinek, K.
A new strategy for the study of oligomeric enzymes: γ-glutamyltransferase in reversed micelles of surfactants in organic solvents (996) 147
Kabanov, A.V., see Martinek, K. (981) 161
Kaczmarek, L., see Nowak, R. (1008) 203
Kaczorowski, G.J., Slaughter, R.S., King, V.F. and García, M.L.
Inhibitors of sodium–calcium exchange: identification and development of probes of transport activity (988) 287
Kadowitz, P.J., see Mayeux, P.R. (1011) 18
Kaftanova, A.S., see Shatilov, V.R. (995) 17
Kageyama, H., Shimizu, M., Tokunaga, K., Hiwasa, T. and Sakiyama, S.
A partial cDNA for a novel protein which has a typical E-F hand structure (1008) 255

Kageyama, K., see Matsui-Yuasa, I. (1014) 225
Kahn, N.N. and Sinha, A.K.
Inhibition of cyclic AMP phosphodiesterase activity of human blood platelet membrane by ADP (984) 113
Kai, M., see Sato, A. (976) 129
Kaimal, T.N.B. and Saroja, M.
The active site composition of porcine pancreatic lipase: possible involvement of lysine (999) 331
Kaiser, I.I., see Aird, S.D. (997) 211
Kaiser, I.I., see Aird, S.D. (997) 219
Kaiserman, H.B., Odenwald, W.F., Stowers, D.J., Poll, E.H.A. and Benbow, R.M.
A major single-stranded DNA binding protein from ovaries of the frog, *Xenopus laevis*, is lactate dehydrogenase (1008) 23
Kajiyama, G., see Koide, K. (1005) 65
Kakitani, M., Tonomura, B. and Hiromi, K.
Static and kinetic studies on binding of a fluorescent analogue of ATP and valyl-tRNA synthetase from *Bacillus stearothermophilus* (996) 76
Kakkar, V.V., see Krishnamurthi, S. (1010) 258
Kalafusz, R., see Heemskerk, J.W.M. (1004) 252
Kalapos, M.P., see Spolarics, Z. (1012) 231
Kalb, E., see Hermetter, A. (978) 151
Kalbitzer, H.R., see Saffrich, R. (997) 144
Kaliman, A., see Kossykh, V. (1009) 290
Kallen, K.-J., see Allan, D. (986) 115
Kalopissis, A.-D., see Francone, O.L. (1002) 28
Kalyanaraman, B., see Feix, J.B. (992) 230
Kamada, I., see Sano, H. (1009) 35
Kamataki, T., see Ohta, K. (996) 142
Kamaya, H., see Kaminoh, Y. (987) 63
Kamaya, H., see Yoshida, T. (979) 287
Kamaya, H., see Yoshida, T. (984) 253
Kamei, T., see Ishida, F. (1004) 117
Kamen, M.D. and Vernon, L.P.
on 'Comparative studies of bacterial cytochromes' (1000) 329
Kamen, M.D.
Commentary by (1000) 329
Kametani, F., see Kitagawa, S. (1011) 117
Kametani, F., see Kitagawa, S. (1011) 52
Kameyama, Y., see Yashiro, K. (1005) 56
Kamino, K., see Enami, I. (977) 33
Kaminogawa, S., Shimizu, M., Ametani, A., Hattori, M., Ando, O., Hachimura, S., Nakamura, Y., Totsuka, M. and Yamauchi, K.
Monoclonal antibodies as probes for monitoring the denaturation process of bovine β-lactoglobulin (998) 50
Kaminoh, Y., Kamaya, H. and Ueda, I.
Differential affinity of charged local anesthetics to solid-gel and liquid-crystalline states of dimyristoylphosphatidic acid vesicle membranes (987) 63
Kamiya, N., see Tanisho, S. (973) 1
Kaneda, T., see Oarada, M. (1012) 156
Kang, A.S., see Au, D.M.Y. (1005) 97
Kanmura, Y., see Missiaen, L. (990) 40
Kanner, B.I., see Lopez-Corcuera, B. (983) 247
Kano, I., see Satoh, K. (994) 104
Kantrowitz, E.R., see Hsuanyu, Y. (995) 54
Kaplan, H., see Hefford, M.A. (998) 267
Kaplanski, S., see Lejeune, P.-J. (990) 122
Kapp, L.N., see Wong, R.S.L. (1007) 224
Kaptein, R., see De Marco, A. (994) 121
Karaplis, A.C., Funk, C.D. and Powell, W.S.
Binding of prostaglandin E_2 to cultured bovine adrenal chromaffin cells and its effect on catecholamine secretion (1010) 369
Karczmar, G.S., Kurtz, T., Tavares, N.J. and Weiner, M.W.
Regulation of hepatic inorganic phosphate and ATP in response to fructose loading: an in vivo ^{31}P-NMR study (1012) 121
Kariya, T., see Ozaki, Y. (1012) 87
Karlish, S.J.D., see Tal, D.M. (985) 55
Karlsson, H., see Thurin, J. (1002) 267
Karlsson, K.-A., see Thurin, J. (1002) 267
Karp, M.
Expression of bacterial luciferase genes from *Vibrio harveyi* in *Bacillus subtilis* and in *Escherichia coli* (1007) 84
Karpov, R.S., see Fuki, I.V. (1001) 235
Karpova, G.G., see Graifer, D.M. (1008) 146
Karr, S.W., see Dailey, H.A. (999) 7
Karshikov, A.D., see Spassov, V.Z. (999) 1
Karukstis, K.K. and Monell, C.R.
Reversal of quinone-induced chlorophyll fluorescence quenching (973) 124
Kasai, K.-i., see Hirabayashi, J. (1008) 85
Kasal, A., see Kolena, J. (979) 279
Kase, B.F., see Christensen, E. (1002) 79
Kasianowicz, J., see Gabev, E. (979) 105
Kasüschke, A., see Wiesner, R. (986) 11
Kaszuba, M. and Hunt, G.R.A.
A ^{1}H-NMR study of the influence of *n*-alcohols on the stoichiometry of melittin-induced permeability of phospholipid vesicles (985) 106
Katagi, C., see Ohnishi, S.T. (1010) 199
Katagi, H., see Ohnishi, S.T. (1010) 199
Katagiri, T., see Sugio, T. (973) 250
Katchalsky, A., see Kedem, O. (1000) 411
Kates, M., see Pugh, E.L. (985) 255
Katiyar, S.S., see Kumar, A. (996) 1
Kato, S., Ito, S., Noguchi, T. and Naito, H.
Effects of brefeldin A on the synthesis and secretion of egg white proteins in primary cultured oviduct cells of laying Japanese quail (*Coturnix coturnix japonica*) (991) 36
Kato, T., see Lee, S. (984) 174
Kato, T., see Suenaga, M. (981) 143
Kato, Y., see Sakai, H. (991) 367
Kato, Y., see Shimokawa, O. (1003) 15
Katoh, H., see Hanazawa, S. (1012) 57
Katoh, S., see Enami, I. (973) 35
Katoh, S., see Enami, I. (977) 33
Katoh, S., see Sonoike, K. (976) 210
Katoh, T., Mimuro, M. and Takaichi, S.
Light-harvesting particles isolated from a brown alga, *Dictyota dichotoma*. A supramolecular assembly of fucoxanthin-chlorophyll-protein complexes (976) 233
Katoh, T., see Mimuro, M. (973) 153
Katsu, T., Kuroko, M., Morikawa, T., Sanchika, K., Fujita, Y., Yamamura, H. and Uda, M.
Mechanism of membrane damage induced by the amphipathic peptides gramicidin S and melittin (983) 135
Katsurada, A., Iritani, N., Fukuda, H., Matsumura, Y., Noguchi, T. and Tanaka, T.
Effects of insulin and fructose on transcriptional and post-transcriptional regulation of malic enzyme synthesis in diabetic rat liver (1004) 103
Katsurada, A., Iritani, N., Fukuda, H., Matsumura, Y., Noguchi, T. and Tanaka, T.
Effects of nutrients and insulin on transcriptional and post-transcriptional regulation of glucose-6-phosphate dehydrogenase synthesis in rat liver (1006) 104
Katz, A., Pick, U. and Avron, M.
Characterization and reconstitution of the Na^+/H^+ antiporter from the plasma membrane of the halotolerant alga *Dunaliella* (983) 9
Katz, E.Y., Shkuropatov, A.Y., Vagabova, O.I. and Shuvalov, V.A.
Coupling of photoinduced charge separation in reaction centers of

photosynthetic bacteria with electron transfer to a chemically modified electrode (976) 121
Katzenmaier, G., see Kerler, F. (990) 15
Kaulen, A.D., see Drachev, A.L. (976) 190
Kaurov, B.S., see Drachev, L.A. (973) 189
Kawabata, T., Ogino, T. and Awai, M.
Protective effects of glutathione against lipid peroxidation in chronically iron-loaded mice (1004) 89
Kawabata, T., see Ogino, T. (1006) 131
Kawaguchi, K., see Utsumi, J. (998) 167
Kawai, G.
Molecular species of cerebrosides in fruiting bodies of *Lentinus edodes* and their biological activity (1001) 185
Kawakami, M., see Ogawa, H. (1003) 131
Kawakishi, S., see Uchida, K. (991) 377
Kawamata, T., see Ohki, R. (1009) 94
Kawamori, A., see Inui, T. (973) 147
Kawamura, Y., see Sakurai, I. (985) 347
Kawano, J.-i., Kotani, T., Ohtaki, S., Minamino, N., Matsuo, H., Oinuma, T. and Aikawa, E.
Characterization of rat and human steroid sulfatases (997) 199
Kawano, K., see Shimokawa, O. (1003) 15
Kawano, Y., see Arêas, E.P.G. (997) 15
Kawasaki, N., Tanimoto, T. and Tanaka, A.
Characterization of aldose reductase and aldehyde reductase from rat testis (996) 30
Kawasaki, N., see Takegawa, K. (990) 98
Kawasaki, T., see Kudo, Y. (978) 313
Kawasaki, T., see Satoh, O. (985) 120
Kawashima, S., see Sakai, K. (985) 51
Kawashima, Y., Horii, S., Matsunaga, T., Hirose, A., Adachi, T. and Kozuka, H.
Co-induction by peroxisome proliferators of microsomal 1-acylglycerophosphocholine acyltransferase with peroxisomal β-oxidation in rat liver (1005) 123
Kawashima, Y., Matsunaga, T., Hirose, A., Ogata, T. and Kozuka, H.
Induction of microsomal 1-acylglycerophosphocholine acyltransferase by peroxisome proliferators in rat kidney; co-induction with peroxisomal β-oxidation (1006) 214
Kawauchi, H., see Sekine, S. (1009) 117
Kazachenko, V.N., see Geletyuk, V.I. (981) 343
Kazbekov, E.N., see Bresler, V.M. (982) 288
Kazuoka, T., see Juneja, L.R. (1003) 277
Kean, K.T., see Chernenko, G.A. (1004) 95
Keaveney, M., Neilan, J. and Gannon, F.
An analysis by restriction enzymes of the genomic structure of the 3′ untranslated region of the human estrogen receptor gene (1007) 289
Kedem, O. and Katchalsky, A.
on 'Thermodynamic analysis of the permeability of biological membranes to non-electrolytes' (1000) 411
Kedem, O.
Commentary by (1000) 411
Keelan, M., see Thomson, A.B.R. (1001) 302
Keil, A., see Radvanyi, F. (1006) 183
Keim, H., see Schwarz, W. (978) 32
Keith, T.J., see Walsh, J.L. (999) 64
Keleti, T., see Leoncini, R. (994) 52
Kelleher, J., see Shires, S.E. (1002) 74
Keller, F., Hanke, W., Trissl, D. and Bakker-Grunwald, T.
Pore-forming protein from *Entamoeba histolytica* forms voltage- and pH-controlled multi-state channels with properties similar to those of the barrel-stave aggregates (982) 89
Kellett, G.L. and Barker, E.D.
The effect of vanadate on glucose transport and metabolism in rat small intestine (979) 311
Kellett, G.L. and Barker, E.D.
The stimulation of glucose absorption and metabolism in rat jejunum by bradykinin: dependence on the composition of commercial diets (992) 128
Kelley, M.J., see Bonnel, S.I. (1005) 289
Kelly, M., see Hussain, M.M. (1001) 90
Kem, W.R., see Doyle, J.W. (987) 181
Kemp, G., see Apap-Bologna, A. (995) 70
Kemp, R.G., see Valaitis, A.P. (995) 187
Kemp, S.F., see Hu, L.-M. (1013) 294
Kempson, S.A., see Al-Mahrouq, H.A. (981) 200
Kennedy, R.C., see Zhou, E.-M. (989) 301
Kent, C., see Paulson, B.K. (1004) 274
Kenton, P., Johnson, P.M. and Webb, P.D.
The phosphorylation of p68, a calcium-binding protein associated with the human syncytiotrophoblast submembranous cytoskeleton, is modulated by growth factors, activators of protein kinase C and cyclic AMP (1014) 271
Keough, K.M.W., Giffin, B. and Matthews, P.L.J.
Phosphatidylcholine–cholesterol interactions: bilayers of heteroacid lipids containing linoleate lose calorimetric transitions at low cholesterol concentration (983) 51
Keough, K.M.W., see Chernenko, G.A. (1004) 95
Keppner, J., see Glaser-Wuttke, G. (985) 239
Keren-Zur, M., Beigel, M. and Loyter, A.
Induction of fusion in aggregated and nonaggregated liposomes bearing cationic detergents (983) 253
Keresztes, T., Jona, I., Pikula, S., Vegh, M., Mullner, N., Papp, S. and Martonosi, A.
Effect of calcium on the interactions between Ca^{2+}-ATPase molecules in sarcoplasmic reticulum (984) 326
Kerler, F., Schwarzkopf, B., Katzenmaier, G., Le Van, Q., Schmid, C., Ziegler, I. and Bacher, A.
Biosynthesis of tetrahydrobiopterin: a sensitive assay of 6-pyruvoyltetrahydropterin synthase using [2′-^{3}H]dihydroneopterin 3′-triphosphate as substrate (990) 15
Kern, D., see Rothman, S.S. (991) 484
Kern, P., see Asselot-Chapel, C. (993) 240
Kerneur, C., see Larnier, C. (1014) 145
Kertai, P., see Bakó, É. (1013) 300
Kessimian, N., see Lineberger, B. (1012) 36
Kester, M., Fisher, R.A. and Olson, M.S.
β-Adrenergic inhibition of AGEPC-stimulated Na^+/Ca^{2+} exchange and AGEPC-induced platelet activation (1014) 195
Kester, M.B. and Sokolove, P.M.
Calcium translocation in liposome systems modeled on the mitochondrial inner membrane (980) 127
Kester, M.B., see Sokolove, P.M. (983) 15
Keszthelyi, L., see Maglova, L. (975) 271
Ketchum, P.A., see Goudsmit, E.M. (992) 289
Khalifah, R.G., see Veiro, J.A. (979) 251
Khan, S., see Pandya, K.P. (992) 23
Khidhir, M., see Casaregola, S. (1008) 45
Khitrina, L.V., see Drachev, A.L. (976) 190
Khmelnitsky, Y.L., see Martinek, K. (981) 161
Khokha, R., see Connor, A.M. (1009) 75
Khoo, J.C., Miller, E., McLoughlin, P., Tabas, I. and J. Rosoff, W.
Cholesterol esterification as a limiting factor in accumulation of cell cholesterol: a comparison of two J774 macrophage cell lines (1012) 215
Khosla, P., Samman, S., Carroll, K.K. and Huff, M.W.
Turnover of ^{125}I-VLDL and ^{131}I-LDL apolipoprotein B in rabbits fed diets containing casein or soy protein (1002) 157
Kidder III, G.W. and Awayda, M.S.
Effects of azide on gastric mucose (973) 59
Kieber-Emmons, T., Jameson, B.A. and Morrow, W.J.W.
The gp120-CD4 interface: structural, immunological and pathological considerations (989) 281
Kikuchi, H., Miura, H., Yamamoto, H., Takeuchi, T., Dei, T. and Watanabe, M.

Characteristic sequences in the upstream region of the human tyrosinase gene (1009) 283
Kikuchi, M., Fukuyama, K., Hirayama, K. and Epstein, W.L.
Purification and characterization of carboxypeptidase from terminally differentiated rat epidermal cells (991) 19
Kikugawa, K., see Beppu, M. (979) 35
Killian, J.A., Prasad, K.U., Urry, D.W. and De Kruijff, B.
A mismatch between the length of gramicidin and the lipid acyl chains is a prerequisite for H_{II} phase formation in phosphatidylcholine model membranes (978) 341
Kim, C.-H., see Sata, H. (991) 388
Kim, H., see Kim, J. (983) 1
Kim, H., see Park, D.-G. (973) 19
Kim, H.W., see Birke, S. (999) 243
Kim, J. and Kim, H.
Interaction of α-lactalbumin with phospholipid vesicles as studied by photoactivated hydrophobic labeling (983) 1
Kim, J.W., Matsumoto, N., Komano, H. and Natori, S.
Stage-specific detection of a DNA-binding protein for the storage protein gene of *Sarcophaga peregrina* (1008) 79
Kim, K., see Park, D.-G. (973) 19
Kimura, H., see Ohsawa, M. (992) 195
Kimura, K., see Yoshimura, S. (981) 69
Kimura, S., see Utsumi, J. (998) 167
Kimura, T., Takeya, T. and Takanami, M.
Reconstitution of nucleosomes in vitro with a plasmid carrying the long terminal repeat of Moloney murine leukemia virus (1007) 318
King, P.M., see Worth, G.A. (993) 134
King, R.J., Simon, D. and Horowitz, P.M.
Aspects of secondary and quaternary structure of surfactant protein A from canine lung (1001) 294
King, S.C. and Wilson, T.H.
Galactoside-dependent proton transport by mutants of the *Escherichia coli* lactose carrier: substitution of tyrosine for histidine-322 and of leucine for serine-306 (982) 253
King, V.F., see Kaczorowski, G.J. (988) 287
Kinnunen, P.K.J., see Salonen, I.S. (982) 205
Kinoshita, H., see Sakiyama, H. (990) 156
Kinoshita, M., see Yamauchi, K. (1003) 151
Kinosian, H.J., see Gershman, L.C. (995) 109
Kinzel, V., see Šonka, J. (997) 268
Kirillova, N.M., see Turko, I.V. (996) 37
Kirkland, J.J., see Arner, E.C. (993) 100
Kirsch, R.E., see Corrigall, A.V. (991) 399
Kirschke, H., see Dahlmann, B. (991) 253
Kirz, J., see Rothman, S.S. (991) 484
Kisel, M.A., see Akhrem, A.A. (992) 191
Kiselev, P.A., see Akhrem, A.A. (992) 191
Kishimoto, N., see Dou, D. (1009) 83
Kissel, D., see Carrasquer, G. (982) 73
Kissel, J.A., Fontaine, R.N., Turck, C.W., Brockman, H.L. and Hui, D.Y.
Molecular cloning and expression of cDNA for rat pancreatic cholesterol esterase (1006) 227
Kistler, J., see Voorter, C.E.M. (986) 8
Kita, K., see Dou, D. (1009) 83
Kitada, M., see Ohta, K. (996) 142
Kitagawa, K., Rosen, B.S., Spiegelman, B.M., Lienhard, G.E. and Tanner, L.I.
Insulin stimulates the acute release of adipsin from 3T3-L1 adipocytes (1014) 83
Kitagawa, S., Ito, Y., Oda, Y. and Kametani, F.
Inhibitory effects of phenol derivatives on bovine platelet aggregation and their effects on Ca^{2+} mobilization (1011) 52
Kitagawa, S., Usui, K. and Kametani, F.
Effect of intracellular Na^+ on platelet aggregation and Ca^{2+} mobilization (1011) 117
Kitagawa, T., Sato, S., Tamaki, T., Oda, T. and Akamatsu, Y.
Inhibitory effects of newly synthesized sulfonamide derivatives on calmodulin-dependent phosphodiesterase activity and their modulation of the external ATP-dependent permeability change in mammalian cultured cells (987) 235
Kitagawa, T., Tanaka, M. and Akamatsu, Y.
Regulation of glucose transport activity and expression of glucose transporter mRNA by serum, growth factors and phorbol ester in quiescent mouse fibroblasts (980) 100
Kitamura, Y., see Mukai, K. (991) 276
Kitani, K., see Ishida, F. (1004) 117
Kitani, K., see Nokubo, M. (981) 303
Kitani, T. and Fujisawa, H.
Purification and characterization of antizyme inhibitor of ornithine decarboxylase from rat liver (991) 44
Kitano, S., see Hanazawa, S. (1012) 57
Kitazono, T., Takeshige, K., Cragoe, Jr., E.J. and Minakami, S.
Involvement of calcium and protein kinase C in the activation of the Na^+/H^+ exchanger in cultured bovine aortic endothelial cells stimulated by extracellular ATP (1013) 152
Kitson, T.M., see Loomes, K.M. (998) 1
Kiviluoma, K.T., Peuhkurinen, K.J. and Hassinen, I.E.
Adenine nucleotide transport and adenosine production in isolated rat heart mitochondria during acetate metabolism (974) 274
Klaassen, H.E., see Vos, M.H. (973) 163
Klausen, N.K., see Børresen, T. (993) 108
Kleber, H.-P., see Jung, H. (1003) 270
Kleese, W.C., see Wolfe, F.H. (998) 236
Klein, G., see Hajji, M.E. (978) 97
Kleiner, A.R., see Bresler, V.M. (982) 288
Kleinman, J.G., see Ramaswamy, K. (981) 193
Kleinschmidt, A.K., Lang, D., Jachertz, D. and Zahn, R.K.
on 'Darstellung und Längenmessungen des gesamten Desoxyribonucleinsäure-Inhaltes von T_2-Bakteriophagen' (1000) 35
Kleinschmidt, A.K.
Preparation and length measurements of the total DNA content of T_2 bacteriophages: a commentary by (1000) 35
Kleinzeller, A. and Mills, J.W.
K^+-induced swelling of the dogfish shark (*Squalus acanthias*) rectal gland cells is associated with changes of the cytoskeleton (1014) 40
Kleinzeller, A., see Thompson, K.A. (1011) 58
Kleinzeller, A., see Widdas, W.F. (979) 221
Klingler, J., see Fromherz, P. (987) 222
Klöck, G. and Kreuzberg, K.
Kinetic properties of a *sn*-glycerol-3-phosphate dehydrogenase purified from the unicellular alga *Chlamydomonas reinhardtii* (991) 347
Klugerman, A.H., see Tenenhouse, H.S. (984) 207
Klyachko, N.L., see Kabanov, A.V. (996) 147
Klyachko, N.L., see Martinek, K. (981) 161
Knaff, D.B., see Hirasawa, M. (977) 150
Knaff, D.B., see Hirasawa, M. (994) 229
Knaff, D.B., see Kriauciunas, A. (976) 70
Knauf, P.A., see Fuhrmann, G.F. (983) 179
Knecht, T.P. and Pittman, R.C.
A plasma membrane pool of cholesteryl esters that may mediate the selective uptake of cholesteryl esters from high-density lipoproteins (1002) 365
Knight, C.G. and Matthews, A.
Determination of pK_a values of lipophilic fluorescein derivatives in phospholipid vesicles by fluorescence emission ratio titration (985) 75
Knight, C.H., see Wilde, C.J. (992) 315
Knowlden, J.M., see Steadman, R. (1013) 21
Knowles, P.F., see Li, G. (987) 187
Knull, H.R., see Walsh, J.L. (999) 64

Ko, F.-N., see Teng, C.-M. (990) 315
Kobayashi, A., Hirai, H., Kubo, T., Ueno, K., Nakanishi, Y. and Natori, S.
Cloning and in vitro transcription of the *Sarcophaga* lectin gene (1009) 244
Kobayashi, A., Watanabe, H., Fujisawa, S., Yamamoto, T. and Yamazaki, N.
Effects of L-carnitine and palmitoylcarnitine on membrane fluidity of human erythrocytes (986) 83
Kobayashi, A., see Watanabe, H. (980) 315
Kobayashi, H., see Ogoma, Y. (997) 188
Kobayashi, K., see Shimizu, N. (995) 133
Kobayashi, M. and Inagaki, S.
Translation and processing of egg-specific protein of the silkworm, *Bombyx mori* (1009) 129
Kobayashi, M., see Sorimachi, K. (1010) 72
Kocha, T., Fukuda, T., Isobe, T. and Okuyama, T.
Specific purification of glyceraldehyde-3-phosphate dehydrogenase by hydrophobic chromatography on immobilized colchicine (991) 56
Kocharov, S.L., see Matinyan, N.S. (984) 313
Kochevar, I.E., see Fluhler, E.N. (990) 269
Kodaira, K.-I., Miyata, T., Suzuki, K., Nakano, K. and Taketo, A.
Possible finger structure in gene A protein of *Microviridae* (1008) 123
Kodaira, K.-I., Nakano, K. and Taketo, A.
Mutational analysis of the bacteriophage α3 origin of complementary DNA synthesis: in vivo properties of mutants (1007) 359
Kodavanti, S., see Joshi, U.M. (1004) 309
Koepsell, H., see Rausch, T. (985) 133
Koffer, A. and Edgar, A.
Enhanced number of actin binding sites on plasma membranes of polyoma virus-transformed fibroblasts (982) 295
Koga, K., see Sugimoto, Y. (992) 400
Kohara, H., Shimizu, K. and Yamaga, N.
Conversion of 5α-pregnane-3,20-dione, 3α-hydroxy-5α-pregnan-20-one and 3β-hydroxy-5α-pregnan-20-one to Δ^{16}-C_{19} steroids by the reconstituted Δ^{16}-C_{19}-steroid synthetase system (991) 141
Koide, K., Hayashi, K., Horiuchi, I. and Kajiyama, G.
Effect of CS-514, a competitive inhibitor of hydroxymethylglutaryl coenzyme A reductase, on cholesterol gallstone formation in hamsters (1005) 65
Koike, H., see Kora, S. (985) 286
Koikeda, S., see Shibata, H. (1007) 184
Koivusalo, M., see Talesa, V. (993) 7
Kojima, K., see Tamiya-Koizumi, K. (1002) 182
Kojima, K., see Yoshida, S. (1007) 61
Kojima, T., see Souzu, H. (978) 112
Kojo, S., see Tsukamoto, I. (1009) 191
Kojro, E., see Raida, M. (980) 291
Kojro, Z., Lin, S.-Q., Grell, E. and Ruf, H.
Determination of internal volume and volume distribution of lipid vesicles from dynamic light scattering data (985) 1
Kolb, H., see Aring, J. (1010) 140
Kolena, J. and Kasal, A.
Effects of cholesteryl esters on the accessibility of LH/hCG receptors and membrane lipid fluidity in rat testes (979) 279
Komano, H., see Kim, J.W. (1008) 79
Komatsu, H., see Matsuzaki, K. (980) 371
Kominami, S., Inoue, S., Higuchi, A. and Takemori, S.
Steroidogenesis in liposomal system containing adrenal microsomal cytochrome *P*-450 electron transfer components (985) 293
Kominami, S., see Ikushiro, S.-i. (984) 50
Komiya, I., see Takasu, N. (1012) 117
Kommerell, B., see Galle, P.R. (1003) 250
Komoda, T., Koyama, I., Arai, Y., Sekine, T., Sakagishi, Y., Kumegawa, M. and Alpers, D.H.
Rat ileal alkaline phosphatase activity and secretion is stimulated by alterations in calcium metabolism (990) 165
Komori, M., see Ohta, K. (996) 142
Komuniecki, R., McCrury, J., Thissen, J. and Rubin, N.
Electron-transfer flavoprotein from anaerobic *Ascaris suum* mitochondria and its role in NADH-dependent 2-methyl branched-chain enoyl-CoA reduction (975) 127
Kon, O.L., see Tang, B.L. (1014) 162
Kondo, H., see Sibille, J.-C. (1010) 204
Kondo, Y., see Ogoma, Y. (997) 188
Kongsamut, S., see Nachshen, D.A. (979) 305
Kongshaug, M., see Rimington, C. (992) 241
König, M., see Korbmacher, C. (1010) 311
Konikoff, F., see Peled, Y. (1003) 246
Konings, W.N., see Crielaard, W. (973) 205
Konings, W.N., see Crielaard, W. (974) 211
Konishi, K., see Ogawa, H. (996) 139
Kono, N., see Sakai, T. (993) 128
Konstantinov, A., see Vygodina, T. (973) 390
Kooistra, C. and Sluyterman, L.A.A.E.
Isosteric and non-isosteric modification of carboxyl groups of papain (997) 115
Kopeček, J., see Flanagan, P.A. (993) 83
Kopečková, P., see Flanagan, P.A. (993) 83
Kopp, R., see Pfeiffer, A. (1001) 191
Kopp, S.J., see Barron, J.T. (1010) 278
Kopp, S.J., see Barron, J.T. (1012) 69
Kopp, S.J., see Barron, J.T. (976) 42
Koppaka, V., see Lala, A.K. (978) 333
Kora, S., Sado, M., Koike, H. and Terada, H.
Protective effect of the plasticizer di(2-ethylhexyl) phthalate against damage of the mitochondrial membrane induced by calcium: possible participation of the adenine nucleotide translocator (985) 286
Korach, K.S., see Iwasaki, M. (992) 1
Korbmacher, C., Helbig, H., Blank, M., Dressler, S., Stahl, F. and Wiederholt, M.
Characterization of Cl^-/HCO_3^- exchange in A10 vascular smooth muscle cells using $^{36}Cl^-$ (985) 67
Korbmacher, C., Schulz, W., König, M., Siebe, H., Lichtenstein, I. and Hierholzer, K.
Renal epithelial cell lines (BSC-1, MDCK, LLC-PK_1) express 11β-hydroxysteroid dehydrogenase activity (1010) 311
Korchev, Y.E., see Schagina, L.V. (978) 145
Koretz, J.F., see Augusteyn, R.C. (999) 293
Koretz, J.F., see Tumminia, S.J. (999) 300
Korfhagen, T.R., see Wispe, J.R. (994) 30
Korichneva, I.L., Grigorian, G.Y., Krasnikova, T.L., Rudchenko, S.A. and Tkachuk, V.A.
Interleukin-2- and phytohemagglutinin-activated proliferation of human T-lymphocytes is accompanied by stimulation of phosphoinositide turnover (1014) 173
Kornalík, F., see Dyr, J.E. (990) 18
Kornberg, A., Lehman, I.R., Bessman, M.L. and Simms, E.S.
on 'Enzymic synthesis of deoxyribonucleic acid' (1000) 53
Kornberg, A.
The early history of DNA polymerase: a commentary by (1000) 53
Kornberg, H.L. and Madsen, N.B.
on 'Synthesis of C_4-dicarboxylic acids from acetate by a 'glyoxylate bypass' of the tricarboxylic acid cycle' (1000) 271
Kornberg, H.L.
Travelling to, and along, the glyoxylate bypass: a commentary by (1000) 271
Kornberg, L.J. and Liberti, J.P.
Nb2 cell mitogenesis: effect of lactogens on cAMP and protein phosphorylation (1011) 205
Kornecki, E., see Niewiarowski, S. (983) 91

Kornilova, E., see Sorkin, A. (1011) 88
Korstanje, L.J., Van Faassen, E.E. and Levine, Y.K.
Slow-motion ESR study of order and dynamics in oriented lipid multibilayers: effects of unsaturation and hydration (980) 225
Korstanje, L.J., Van Faassen, E.E. and Levine, Y.K.
Reorientational dynamics in lipid vesicles and liposomes studied with ESR: effects of hydration, curvature and unsaturation (982) 196
Koschel, K., see Tas, P.W.L. (983) 264
Koshy, K.M., see Jeffrey, K.R. (986) 241
Kossykh, V., Repyk, A., Kaliman, A. and Buryanov, Y.
Nucleotide sequence of the *Eco*RII restriction endonuclease gene (1009) 290
Koster, J.F., see Van der Zee, J. (980) 175
Kosunen, T.U., see Kuusela, P. (993) 297
Kosykh, V.A., see Victorov, A.V. (984) 119
Kotani, T., see Kawano, J.-i. (997) 199
Kotyk, A., see Sychrová, H. (978) 203
Kotzabasis, K., Breu, V. and Dörnemann, D.
The inhibitory effect of 4,5-dioxovalerate on 5-aminolevulinate dehydratase and its implication in the regulation of light-dependent chlorophyll formation in pigment mutant C-2A′ of *Scenedesmus obliquus* (977) 309
Kouyoumdjian, M., Borges, D.R., Prado, E.S. and Prado, J.L.
Identification of receptors in the liver that mediate endocytosis of circulating tissue kallikreins (980) 299
Kovács, T., see Magócsi, M. (984) 88
Kowalski, D., see Umek, R.M. (1007) 1
Kowatch, M.A., see Maki, T. (1014) 73
Koyama, I., see Komoda, T. (990) 165
Koyama, N.
Characterization of the membrane-bound ATPase from a facultatively anaerobic alkalophile (980) 255
Koyama, T., see Yoshida, I. (995) 138
Koynova, R.D., Tenchov, B.G. and Quinn, P.J.
Sugars favour formation of hexagonal (H_{II}) phase at the expense of lamellar liquid-crystalline phase in hydrated phosphatidylethanolamines (980) 377
Kozaki, Y., Amoh, T., Yamaguchi, N. and Muramatu, M.
Fluctuation of trypsin-like proteinase activity in the cell cycle of synchronized and growing HeLa cells, and the effect of GMCHA-OPhBu^t (1014) 120
Kozubek, A., see Jain, M.K. (980) 23
Kozuka, H., see Kawashima, Y. (1005) 123
Kozuka, H., see Kawashima, Y. (1006) 214
Kozumplik, V., Staffa, F. and Hoffmann, G.E.
Purification of pancreatic phospholipase A_2 from human duodenal juice (1002) 395
Kraft, A.S., see Berkow, R.L. (997) 292
Krajcarski, D.T., see Pugh, E.L. (985) 255
Kramer, D.M. and Crofts, A.R.
Activation of the chloroplast ATPase measured by the electrochromic change in leaves of intact plants (976) 28
Kramer, J.K.G., see Sauer, F.D. (1004) 205
Krämer, R. and Palmieri, F.
Molecular aspects of isolated and reconstituted carrier proteins from animal mitochondria (974) 1
Krämer, R., see Indiveri, C. (977) 187
Krämer, R., see Indiveri, C. (977) 194
Krane, S.M., see Crane, R.K. (1000) 431
Krasnikova, T.L., see Korichneva, I.L. (1014) 173
Kratzin, H., see Lorenz, B. (995) 1
Krauss, G.-J., see Abel, S. (998) 145
Krauter, B., Nagel, W., Hartmann, H.-J. and Weser, U.
Copper-thionein in melanoma (1013) 212
Krawczyk, S.
The effects of hydrogen bonding and coordination interaction in visible absorption and vibrational spectra of chlorophyll *a* (976) 140
Krawczyk, Z., Wiśniewski, J., Mackiewicz, M., Biesiada, E. and Chorąży, M.
Activation of the glucose-regulated gene (*grp78*) in regenerating rat liver is nonspecific and is related to acute phase response (1009) 237
Krawice, I., see Ladoux, A. (1013) 55
Krayevsky, A.A., see Chinchaladze, D.Z. (1008) 113
Krebs, D., see Arnold, W.M. (979) 142
Krebs, E.G. and Fischer, E.H.
on 'The phosphorylase *b* to *a* converting enzyme of rabbit skeletal muscle' (1000) 297
Krebs, E.G., see Fischer, E.H. (1000) 297
Krebs, K.E., see Ibdah, J.A. (1004) 300
Kremers, J.A., see Meulendijks, G.H.W.M. (979) 321
Krenn, B.E., Izumi, Y., Yamada, H. and Wever, R.
A comparison of different (vanadium)bromoperoxidases; the bromoperoxidase from *Corallina pilulifera* is also a vanadium enzyme (998) 63
Kress, H.-G., see Tas, P.W.L. (983) 264
Kretovich, W.L., see Shatilov, V.R. (994) 222
Kretovich, W.L., see Shatilov, V.R. (995) 17
Kreuzberg, K., see Klöck, G. (991) 347
Kriauciunas, A., Yu, L., Yu, C.-A., Wynn, R.M. and Knaff, D.B.
The *Rhodospirillum rubrum* cytochrome bc_1 complex: peptide composition, prosthetic group content and quinone binding (976) 70
Kriedemann, P.E., see Porra, R.J. (975) 384
Krishnamurthi, S., Patel, Y. and Kakkar, V.V.
Weak inhibition of protein kinase C coupled with various non-specific effects make sphingosine an unsuitable tool in platelet signal transduction studies (1010) 258
Krishnamurthy, R., see Pandya, K.P. (992) 23
Krishnan, A.K., see Lim, S.T. (991) 353
Krishtalik, L.I.
Activationless electron transfer in the reaction centre of photosynthesis (977) 200
Kristensen, B.I. and Kristensen, P.
Characterization of Ca^{2+}-binding proteins from Ehrlich ascites tumor cell cytoplasm and their binding to membranes (978) 72
Kristensen, P., see Kristensen, B.I. (978) 72
Kristensen, S.R.
A critical appraisal of the association between energy charge and cell damage (1012) 272
Križaj, I., Turk, D., Ritonja, A. and Gubenšek, F.
Primary structure of ammodytoxin C further reveals the toxic site of ammodytoxin (999) 198
Krogmann, D.W., see Avron, M. (1000) 381
Kropp, K.E., see Wispe, J.R. (994) 30
Krowicki, K., see Burckhardt, G. (1009) 11
Krüger, S., Meyer, U., Daniels, D. and Schlegel, W.
Prostaglandin-E_2 9-ketoreductase from swine kidney. Production of antisera and application to development of a radioimmunoassay (1001) 9
Krulwich, T.A., see Rohde, M. (985) 233
Krupenko, S.A., see Avvakumov, G.V. (984) 143
Kryvi, H., see Berge, R.K. (1004) 345
Kubicek, C.P., see Hönlinger, C. (993) 204
Kubicek, C.P., see Hofer, F. (992) 298
Kubicek, C.P., see Mischak, H. (990) 1
Kübler, D., see Šonka, J. (997) 268
Kubo, T., see Kobayashi, A. (1009) 244
Küchler, E., see Mischak, H. (990) 1
Kudo, I., see Murakami, M. (1005) 270
Kudo, I., see Naito, M. (985) 147
Kudo, Y., Urabe, T., Fujiwara, A., Yamada, K. and Kawasaki, T.

Carrier-mediated uptake system for cephalexin in human placental brush-border membrane vesicles (978) 313
Kudo, Y., see Satoh, O. (985) 120
Kudryavtseva, N.N., see Atanasov, B.P. (998) 80
Kuehn, L., Dahlmann, B., Gauthier, F. and Neubauer, H.-P.
High-molecular-mass proteinases in rabbit reticulocytes: the multicatalytic proteinase is an ATP-independent enzyme and ATP-activated proteolysis is in part associated with a cysteine proteinase complexed to α_1-macroglobulin (991) 263
Kuehn, L., see Dahlmann, B. (991) 253
Kuge, O., Akamatsu, Y. and Nishijima, M.
Abortive infection with Sindbis virus of a Chinese hamster ovary cell mutant defective in phosphatidylserine and phosphatidylethanolamine biosynthesis (986) 61
Kühn, H., see Wiesner, R. (986) 11
Kuijpers, G.A.J., De Pont, J.J.H.H.M. and Westerhoff, H.V.
A model for fluid secretion in the exocrine pancreas (984) 71
Kuijpers, G.A.J., Van Nooy, I.G.P. and De Pont, J.J.H.H.M.
Role of monovalent cations in fluid secretion from the exocrine rabbit pancreas (984) 63
Kuipers, J., see Bruinenberg, P.G. (1008) 157
Kukreja, R.C., Weaver, A.B. and Hess, M.L.
Stimulated human neutrophils damage cardiac sarcoplasmic reticulum function by generation of oxidants (990) 198
Kulanthaivel, P., Leibach, F.H., Mahesh, V.B. and Ganapathy, V.
Tyrosine residues are essential for the activity of the human placental taurine transporter (985) 139
Kulys, J.J., see Čénas, N.K. (973) 399
Kumai, K., see Tomita, T. (978) 185
Kumaoka, H., see Tazuya, K. (990) 73
Kumar, A., Kumar, A. and Katiyar, S.S.
Activity and kinetic characteristics of glutathione reductase in vitro in reverse micellar waterpool (996) 1
Kumar, A., see Kumar, A. (996) 1
Kumar, N.G., see Levy, A. (991) 97
Kumar, R., see Bikle, D. (1010) 122
Kume, S., see Ozaki, Y. (1012) 87
Kumegawa, M., see Komoda, T. (990) 165
Kummerow, F.A., see Leszczynski, D.E. (1014) 90
Kummerow, F.A., see Mahfouz, M.M. (1006) 70
Kummerow, F.A., see Mahfouz, M.M. (1006) 75
Kundu, M., Basu, J., Rakshit, M.M. and Chakrabarti, P.
Abnormalities in erythrocyte membrane band 3 in chronic myelogenous leukemia (985) 97
Kunst, M., Sies, H. and Akerboom, T.P.M.
S-(4-Azidophenacyl)[^{35}S]glutathione photoaffinity labeling of rat liver plasma membrane-associated proteins (982) 15
Kunst, M., Sies, H. and Akerboom, T.P.M.
ATP-stimulated uptake of *S*-(2,4-dinitrophenyl)glutathione by plasma membrane vesicles from rat liver (983) 123
Kunz, W., see Schönfeld, P. (977) 266
Kunze, D., see Rüstow, B. (1002) 261
Kunze, H., see Löffler, B.-M. (1003) 225
Kuo, S.-C., see Teng, C.-M. (990) 315
Kupferberg, A., Teller, G., Behr, P., Leray, C., Urban, P.F., Vincendon, G. and Mersel, M.
Effect of 7β-hydroxycholesterol on astrocyte primary cultures and derived spontaneously transformed cell lines: cytotoxicity and metabolism (1013) 231
Kurihara, K., see Nomura, T. (1005) 260
Kuroda, G., see Inui, T. (973) 147
Kuroda, H., Kuroda, R. and Sakai, T.
Membrane electrogenesis in plasmodia of *Physarum polycephalum*: a dominant role for the proton pump (987) 154
Kuroda, R., see Kuroda, H. (987) 154
Kuroiwa, N., see Tamiya, N. (995) 28
Kurokawa, T., Fukumori, Y. and Yamanaka, T.
Nitrobacter winogradskyi cytochrome *b*-559: a nonhaem iron-containing cytochrome related to bacterioferritin (976) 135
Kuroki, M., Takeshige, K. and Minakami, S.
ATP-induced calcium mobilization in human neutrophils (1012) 103
Kuroko, M., see Katsu, T. (983) 135
Kurtz, Jr., D.M., see Bonomi, F. (999) 147
Kurtz, T., see Karczmar, G.S. (1012) 121
Kuryshev, Y.A., see Mozhayeva, G.N. (1011) 171
Kusakabe, T., see Sugimoto, Y. (992) 400
Kutlar, F., see Codrington, J.F. (1009) 87
Kutoh, E., see Sone, N. (977) 329
Kütt, H., Herz, J. and Stanley, K.K.
Structure of the low-density lipoprotein receptor-related protein (LRP) promoter (1009) 229
Kuusela, P., Moran, A.P., Vartio, T. and Kosunen, T.U.
Interaction of *Campylobacter jejuni* with extracellular matrix components (993) 297
Kuwazuru, Y., see Yoshimura, A. (992) 307
Kuzminskaya, E.V., see Asryants, R.A. (997) 159
Kuznierz, J.-P., see Benhamamouch, S. (1002) 45
Kvalvaag, A.H., see Tollersrud, O.K. (1010) 35
Kwiatkowska, D., see Valaitis, A.P. (995) 187
Kwok, F., see Churchich, J.E. (996) 181
Kyner, D. and Rothenberg, S.P.
Age-dependent expression of a novel protein in mouse liver immunologically and functionally homologous with dihydrofolate reductase (993) 56
Kypr, J., Mrázek, J. and Reich, J.
Nucleotide composition bias and CpG dinucleotide content in the genomes of HIV and HTLV 1/2 (1009) 280
Kyriakidis, D.A., see Lougovoi, C.P. (996) 70

L

Labat-Robert, J., see Asselot-Chapel, C. (993) 240
Labbé, H., see Privat, J.-P. (979) 257
Labdon, J.E., see Ramanathan, L. (1007) 283
Labotka, R.J., Galanter, W. and Misiewicz, V.M.
Erythrocyte bisulfite transport (981) 358
Labouesse, J., see Volker, T.T. (984) 243
LaCagnin, L.B., see Ma, J.Y.C. (1003) 136
Lacey, E., see Russell, G.J. (993) 233
Lachant, N.A., Zerez, C.R. and Tanaka, K.R.
Pyrimidine nucleotides impair phosphoribosylpyrophosphate (PRPP) synthetase subunit aggregation by sequestering magnesium. A mechanism for the decreased PRPP synthetase activity in hereditary erythrocyte pyrimidine 5′-nucleotidase deficiency (994) 81
Lacombe, C. and Lubochinsky, B.
Effect of 3,4-dihydroxybutyl-1-phosphonate on cardiolipin synthesis in *B. subtilis* (1005) 103
Lacoste, A.-M., see Dumora, C. (997) 193
Ladoux, A., Krawice, I., Damais, C. and Frelin, C.
Phorbol esters and chemotactic factor induce distinct changes in cytoplasmic Ca^{2+} and pH in granulocytic like HL60 cells (1013) 55
Lafleur, M., Faucon, J.-F., Dufourcq, J. and Pézolet, M.
Perturbation of binary phospholipid mixtures by melittin: A fluorescence and Raman spectroscopy study (980) 85

Lafleur, M.V.M., see Di Mascio, P. (1007) 151
Lafont, H., see Cheillan, F. (999) 233
Lafont, H., see Martigne, M. (979) 341
La Fournière, L., Bosc-Bierne, I., Bellon, B. and Sarda, L.
Inhibitory properties and antigenic specificity of monoclonal antibodies to pancreatic colipase (998) 158
Lagerberg, J.W.M., see Boegheim, J.P.J. (1012) 237
Lagerberg, J.W.M., see Boegheim, J.P.J. (979) 215
Lah, T.T., Clifford, J.L., Helmer, K.M., Day, N.A., Moin, K., Honn, K.V., Crissman, J.D. and Sloane, B.F.
Inhibitory properties of low molecular mass cysteine proteinase inhibitors from human sarcoma (993) 63
Lahiri, P., see Chatterjee, D. (984) 104
Lai, W.M., see Mow, V.C. (992) 201
Laine, B., see Chartier, F. (1008) 309
Laine, B., see Crevel, G. (1007) 36
Lake, B.D., see Hall, N.A. (993) 245
Lake, M., see Carlsson-Skwirut, C. (1011) 192
Lakey, J.H., Maget-Dana, R. and Ptak, M.
The lipopeptide antibiotic A21978C has a specific interaction with DMPC only in the presence of calcium ions (985) 60
Lakin-Thomas, P.L., see Nobes, C.D. (976) 241
Lala, A.K., Dixit, R.R. and Koppaka, V.
Depth-dependent photolabelling of membrane hydrophobic core with 9-diazofluorene-2-butyric acid (978) 333
Lalthantluanga, R., see Bhuyan, A.K. (997) 36
Lam, B.K., see Ng, C.F. (1004) 332
La Mar, G.N., see Yamamoto, Y. (996) 187
Lambert, C., Chacon, J.N., Chedekel, M.R., Land, E.J., Riley, P.A., Thompson, A. and Truscott, T.G.
A pulse radiolysis investigation of the oxidation of indolic melanin precursors: evidence for indolequinones and subsequent intermediates (993) 12
Lambert, N., see Plumb, G.W. (999) 281
Lambert, P.A., see Sansom, C.E. (995) 21
Lamblin, G., see Houdret, N. (992) 96
Lammers, R., see Jansen, H. (1001) 44
Lamy-Freund, M.T., Ferreira, V.F.N. and Schreier, S.
Polydispersity of aggregates formed by the polyene antibiotic amphotericin B and deoxycholate. A spin label study (981) 207
Lancet, D., see Lazard, D. (1013) 68
Lanclos, K.D., Michael, S.K., Gu, Y.C., Howard, E.F., Stoming, T.A. and Huisman, T.H.J.
Transient chloramphenicol acetyltransferase expression of the $^{G}\gamma$ globin gene 5′-flanking regions containing substitutions of C → T at position −158, G → A at position −161, and T → A at position −175 in K562 cells (1008) 109
Land, E.J., see Andreoni, A. (990) 190
Land, E.J., see Bouheroum, M. (998) 57
Land, E.J., see Lambert, C. (993) 12
Landau, J.V., see Tumminia, S.J. (999) 300
Landi, L., Fiorentini, D., Cabrini, L., Stefanelli, C. and Sechi, A.M.
Effects of free radicals produced by sonolysis on ubiquinone-containing vesicles (984) 21
Lane, R.D., see Mellgren, R.L. (999) 71
Lanéelle, M.-A., see Daffé, M. (1002) 333
Lanford, R.E., see Rainwater, D.L. (1003) 30
Lang, D., see Kleinschmidt, A.K. (1000) 35
Lang, M.A., see Usanov, S.A. (998) 189
Langrand, G., see Rangheard, M.-S. (1004) 20
Lanzotti, V., Nicolaus, B., Trincone, A., De Rosa, M., Grant, W.D. and Gambacorta, A.
A complex lipid with a cyclic phosphate from the archaebacterium *Natronococcus occultus* (1001) 31
Lanzotti, V., Nicolaus, B., Trincone, A., De Rosa, M., Grant, W.D. and Gambacorta, A.
An isopranoid ether analogue of phosphatidic acid from a halophilic archaebacterium (1002) 398
Lanzotti, V., Trincone, A., Nicolaus, B., Zillig, W., De Rosa, M. and Gambacorta, A.
Complex lipids of *Pyrococcus* and AN1, thermophilic members of archaebacteria belonging to *Thermococcales* (1004) 44
Lapidot, M. and Loyter, A.
Fusogenic properties of reconstituted hybrid vesicles containing Sendai and influenza envelope glycoproteins: fluorescence dequenching and fluorescence microscopy studies (980) 281
Laplaud, P.M., Saboureau, M., Beaubatie, L. and El-Omari, B.
Seasonal variations of plasma lipids and lipoproteins in the hedgehog, an animal model for lipoprotein (a) metabolism: relation to plasma thyroxine and testosterone levels (1005) 143
Larner, J. and Villar-Palasí, C.
Commentary by (1000) 311
Larner, J., see Villar-Palasí, C. (1000) 311
Larnier, C., Kerneur, C., Robert, L. and Moczar, M.
Effect of testicular hyaluronidase on hyaluronate synthesis by human skin fibroblasts in culture (1014) 145
Laroche, A., see Savard, L. (1007) 264
Larreta-Garde, V., see Xu, Z.-F. (998) 251
Larriba, G., see Ramírez, M. (990) 206
Larriba, G., see Ridruejo, J.C. (993) 179
Larsen, L.M., see Børresen, T. (993) 108
Larsen, R.W., see Hirasawa, M. (994) 229
Larson, D.E., Zahradka, P., Stein, G., Stein, J. and Sells, B.H.
Down-regulation of histone H3 and H4 gene transcription in differentiated L6 myotubes (1009) 177
Larson, E.M. and Jagendorf, A.T.
Sulfite stimulation of chloroplast coupling factor ATPase (973) 67
Larson, E.M., Umbach, A. and Jagendorf, A.T.
Sulfite-stimulated release of [^{3}H]ADP bound to chloroplast thylakoid ATPase (973) 78
Larsson, C., see Gallet, O. (978) 56
Larsson, C., see Lemoine, R. (978) 65
Larsson, U.K., see Sundby, C. (975) 277
Lasch, J., see Weissig, V. (1003) 54
Laskin, J.D., see Abidi, T.F. (992) 362
Lasslo, A., see Dillingham, E.O. (990) 128
Lasslo, A., see Petrusewicz, J. (983) 161
Last, J.A., Summers, P. and Reiser, K.M.
Biosynthesis of collagen crosslinks. II. In vivo labelling and stability of lung collagen in rats (990) 182
Latos, P. and Wojtczak, A.B.
Use of the glucose oxidase/peroxidase method for glucose assay leads to overestimation of the inhibition of gluconeogenesis by aminopyrine (991) 152
Latshaw, S.P., see Valaitis, A.P. (995) 187
Lau, H.K.F. and Rosenberg, R.D.
Conformational changes in human prothrombin as detected by antibody populations (996) 95
Lau, P.P., Zhou, X.-g. and Gray, Jr., H.B.
Ethidium bromide-mediated renaturation of denatured closed circular DNAs: mechanistic aspects and fractionation of DNA on a molecular weight basis (1007) 73
Läuger, P., see Clarke, R.J. (981) 326
Läuger, P., see Fringeli, U.P. (984) 301
Launay, J.F., Jellali, A. and Vanier, M.T.
Glyceraldehyde-3-phosphate dehydrogenase is a microtubule binding protein in a human colon tumor cell line (996) 103
Laure, C.J., see Arêas, E.P.G. (997) 15
Laurent, P. and Bieth, J.G.
Kinetics of the inhibition of free and elastin-bound human pancreatic elastase by α_1-proteinase inhibitor and α_2-macroglobulin (994) 285
Lavasa, M., see Padh, H. (982) 271
Lavergne, J., Joliot, P. and Verméglio, A.
Partial equilibration of photosynthetic electron carriers under weak illumination: a theoretical and experimental study (975) 346

Lavialle, F., see Rainteau, D. (1011) 81
Lavie, E., Bitton, M., Shalev, J., Weininger, J., Abrashkin, S., Varga, E., Lubin, E. and Azoury, R.
Clot uptake of labeled active and inhibited tissue plasminogen activator (991) 62
Lavie, E., see Azoury, R. (995) 295
Lavorel, J., Richaud, P. and Verméglio, A.
Interaction of photosynthesis and respiration in Rhodospirillaceae: evidence for two functionally distinct b-c_1 complex fractions (973) 290
Lavrik, O.I., see Bukhrashvili, I.S. (1008) 102
Law, A.J.R., see Dalgleish, D.G. (991) 383
Lázár, G., Van Galen, M. and Scherphof, G.L.
Gadolinium chloride-induced shifts in intrahepatic distributions of liposomes (1011) 97
Lazard, D., Barak, Y. and Lancet, D.
Bovine olfactory cilia preparation: thiol-modulated odorant-sensitive adenylyl cyclase (1013) 68
Lazaro, R., see Strässle, M. (980) 305
Lazure, C., see Paquin, J. (999) 103
Le, H.V., see Ramanathan, L. (1007) 283
Leake, D.S., May, G., Soyombo, A.A. and Nasr-Esfahani, M.H.
The effect of macrophage stimulation on the uptake of acetylated low-density lipoproteins (1005) 196
Learmonth, R.P., Woodhouse, A.G. and Sawyer, W.H.
Rotational dynamics of erythrocyte spectrin (987) 124
Leblanc, R.M., see Carpentier, R. (975) 370
Lebleu, B., see Milhaud, P.G. (987) 15
Lebrun, P., Plasman, P.O. and Herchuelz, A.
Effect of extracellular sodium removal upon ^{86}Rb outflow from pancreatic islet cells (1011) 6
Lecander, I., see Jensen, P.H. (986) 135
Lecerf, J.-M., see Benhamamouch, S. (1002) 45
Leclercq-Meyer, V., see Blachier, F. (1013) 144
Lecuyer, B., see Guettet, C. (1005) 233
Le Doan, T., see Hajji, M.E. (978) 97
Leduc, R., see Robins, S.J. (1004) 327
Lee, A.G., see Munkonge, F. (979) 113
Lee, B.-r., see Yang, C.-y. (1002) 231
Lee, C.-P. and Ernster, L.
Energy-linked nicotinamide nucleotide transhydrogenase 1963–1988: a commentary by (1000) 371
Lee, C.M., see Pauwels, S. (996) 82
Lee, C.P. and Ernster, L.
on 'Equilibrium studies of the energy-dependent and non-energy-dependent pyridine nucleotide transhydrogenase reactions' (1000) 371
Lee, H.-M. and Fain, J.N.
Regulation of oxytocin-induced phosphoinositide breakdown in adipocytes by adenosine, isoproterenol and insulin (1013) 73
Lee, J.-C., see Teng, C.-M. (990) 315
Lee, K.R. and Sheu, S.Y.
Evidence of a new metabolic pathway of 5-fluorouracil in *Escherichia coli* from in vivo ^{19}F-NMR spectroscopy (1011) 12
Lee, L.-G., see Teng, C.-M. (990) 315
Lee, M.F., see Au, K.S. (978) 197
Lee, R.C., see Gray, M.L. (991) 415
Lee, S., Yoshida, M., Mihara, H., Aoyagi, H., Kato, T. and Yamasaki, N.
The spectroscopic analysis for binding of amphipathic and antimicrobial model peptides containing pyrenylalanine and tryptophan to lipid bilayer (984) 174
Lee, S., see Suenaga, M. (981) 143
Lee, Y.-C., see Schweizer, M.P. (1008) 293
Lee, Y.-S., see Hsu, B.-D. (975) 44
Leegood, R.C., see Doncaster, H.D. (973) 176
Lefauconnier, J.-M., see Tayarani, I. (985) 168
Lefebvre, V. and Vaes, G.
The enzymatic evaluation of procollagenase and collagenase inhibitors in crude biological media (992) 355
Léger, C.L., see Christon, R. (980) 77
Legrum, B. and Passow, H.
Inhibition of inorganic anion transport across the human red blood cell membrane by chloride-dependent association of dipyridamole with a stilbene disulfonate binding site on the band 3 protein (979) 193
Legrum, B., see Berghout, A. (986) 75
Legrum, B., see Raida, M. (980) 291
Le Hégarat, F., see Salti, V. (1009) 161
Lehle, L., see Roitsch, T. (1009) 19
Lehman, I.R., see Kornberg, A. (1000) 53
Lehman, W.
35 kDa proteins are not components of vertebrate smooth muscle thin filaments (996) 57
Lehotsky, J., see Wrzosek, A. (986) 263
Leibach, F.H., see Kulanthaivel, P. (985) 139
Leibach, F.H., see Miyamoto, Y. (978) 25
Leighton, B., see Cooper, G.J.S. (1014) 247
Leikin, A.I. and Brenner, R.R.
Fatty acid desaturase activities are modulated by phytosterol incorporation in microsomes (1005) 187
Leinbach, S.S. and Heath, L.S.
Characterization of the single-stranded DNA-binding domain of the herpes simplex virus protein ICP8 (1008) 281
Leitman, D.C., see Waldman, S.A. (999) 157
Lejeune, P.-J., Mallet, B., Farnarier, C. and Kaplanski, S.
Changes in serum level and affinity for concanavalin A of human α_1-proteinase inhibitor in severe burn patients: relationship to natural killer cell activity (990) 122
Le Maout, S., see Merot, J. (978) 134
Lembezat, M.-P., see Radvanyi, F. (1006) 183
Lemieux, G., see Savard, L. (1007) 264
Lemmens, M., Verheyden, K., Van Veldhoven, P., Vereecke, J., Mannaerts, G.P. and Carmeliet, E.
Single-channel analysis of a large conductance channel in peroxisomes from rat liver (984) 351
Lemoine, R., Delrot, S., Gallet, O. and Larsson, C.
The sucrose carrier of the plant plasma membrane. II. Immunological characterization (978) 65
Lemoine, R., see Gallet, O. (978) 56
Lemtur, A., see Bhuyan, A.K. (997) 36
Lenaz, G., see Baracca, A. (976) 77
Lennarz, W.J., see Sagami, H. (1002) 218
Lenoir, G., see Remy, E. (1005) 87
Lenzen, S., Görlich, J.-K. and Rustenbeck, I.
Regulation of transmembrane ion transport by reaction products of phospholipase A_2. I. Effects of lysophospholipids on mitochondrial Ca^{2+} transport (982) 140
Lenzen, S., see Rustenbeck, I. (982) 147
Lenzo, N.P., see Martins, I.J. (1005) 217
Leonard, D., see Ghishan, F.K. (979) 77
Leonard, K., see Monk, B.C. (981) 226
Leoncini, R., Pagani, R., Marinello, E. and Keleti, T.
Double inhibition of L-threonine dehydratase by aminothiols (994) 52
Leonhard, M., see Welte, W. (984) 193
Lepnev, G.P., see Drachev, A.L. (976) 190
Lepock, J.R., Frey, H.E., Bayne, H. and Markus, J.
Relationship of hyperthermia-induced hemolysis of human erythrocytes to the thermal denaturation of membrane proteins (980) 191
Léránt, I., see Spolarics, Z. (1012) 231
Leray, C., see Kupferberg, A. (1013) 231
Lesage, S., see Robertson, D.E. (992) 320

Leserman, L., see Milhaud, P.G. (987) 15
Lesgards, G., see Cheillan, F. (999) 233
Lessire, R., Bessoule, J.-J. and Cassagne, C.
Involvement of a β-ketoacyl-CoA intermediate in acyl-CoA elongation by an acyl-CoA elongase purified from leek epidermal cells (1006) 35
Lessire, R., see Bessoule, J.-J. (983) 35
Lester, R.L., see Crane, F.L. (1000) 358
Leszczynski, D.E., Schafer, R.M., Perkins, E.G., Jerrell, J.P. and Kummerow, F.A.
Esterification of dehydroepiandrosterone by human plasma HDL_3 (1014) 90
Leunissen, J., see Schuurmans Stekhoven, F.M.A.H. (982) 103
Lev, A.A., see Schagina, L.V. (978) 145
Le Van, Q., see Kerler, F. (990) 15
Levashov, A.V., see Kabanov, A.V. (996) 147
Levashov, A.V., see Martinek, K. (981) 161
Leverve, X., see Rigoulet, M. (975) 325
Levin, I.W., see Lewis, E.N. (986) 161
Levin, M.S., Pitt, A.J.A., Schwartz, A.L., Edwards, P.A. and Gordon, J.I.
Developmental changes in the expression of genes involved in cholesterol biosynthesis and lipid transport in human and rat fetal and neonatal livers (1003) 293
Levina, A.S., see Bukhrashvili, I.S. (1008) 102
Levine, Y.K., see Korstanje, L.J. (980) 225
Levine, Y.K., see Korstanje, L.J. (982) 196
Levine, Y.K., see Van Gurp, M. (973) 405
Levinson, C., see Smith, T.C. (978) 169
Levy, A., Manoharan, P.T., Rifkind, J.M., Walker, J.C., Haberle, F.C., Kumar, N.G., Glickson, J.D. and Elgavish, G.A.
Mössbauer, EPR and NMR studies of the acid-induced reduction and changes in spin state of ferric bleomycin (991) 97
Levy, E., Ziv, E., Bar-On, H. and Shafrir, E.
Chylomicron synthesis in experimental nephrotic syndrome (1005) 20
Levy, J.A., see Evans, L.A. (989) 237
Levy, L.M. and Betts, G.F.
Stereospecificity of C4 nicotinamide hydrogen transfer of the NADP-dependent glyceraldehyde-3-phosphate dehydrogenase (997) 331
Lewin, M.J.M., see Benkouka, F. (987) 205
Lewis,, G., see Whiting, M.J. (1005) 137
Lewis, E.N., Levin, I.W. and Steer, C.J.
Infrared spectroscopic study of ethanol-induced changes in rat liver plasma membrane (986) 161
Lewis, J. and Jobe, A.
Metabolism of intratracheally administered unsaturated phosphatidylcholines in adult rabbits (1005) 277
Lewis, R.N.A.H., see Mantsch, H.H. (980) 42
Lewis, S.M., see Ervasti, J.M. (986) 70
Leyravaud, S. and Benveniste, J.
Regulation of cellular retention of paf-acether by extracellular pH and cell concentration (1005) 192
Lhoest, J., see Lobet, Y. (997) 224
Li, G., Horváth, L.I., Knowles, P.F., Murphy, D.J. and Marsh, D.
Spin label saturation transfer ESR studies of protein-lipid interactions in Photosystem II-enriched membranes (987) 187
Li, S.W., see Hu, H. (1014) 211
Li, Y.-K. and Byers, L.D.
Inhibition of β-glucosidase by imidazoles (999) 227
Liao, T.-H., Liao, W.-C., Chang, H.-C. and Lu, K.-S.
Deoxyribonuclease II purified from the isolated lysosomes of porcine spleen and from porcine liver homogenates. Comparison with deoxyribonuclease II purified from porcine spleen homogenates (1007) 15
Liao, W.-C., see Liao, T.-H. (1007) 15
Liberatore, F., see Carelli, V. (991) 25
Liberti, J.P., see Kornberg, L.J. (1011) 205
Libonati, M., see Sorrentino, S. (998) 97
Lichtenstein, I., see Korbmacher, C. (1010) 311
Liébecq, C. and Peters, R.A.
on 'The toxicity of fluoroacetate and the tricarboxylic acid cycle' (1000) 251
Liébecq, C.
Commentary by (1000) 251
Lieberman, D.M., see Werner, P.K. (982) 309
Liemans, V., Malaisse-Lagae, F., Willem, R. and Malaisse, W.J.
Phosphoglucoisomerase-catalyzed interconversion of hexose phosphates; diastereotopic specificity, isotopic discrimination and intramolecular hydrogen transfer (998) 111
Liemans, V., see Malaisse-Lagae, F. (998) 118
Lienhard, G.E., see Kitagawa, K. (1014) 83
Liepins, E., see Vesterman, B. (998) 204
Lieutenant, K., see Steinhoff, H.-J. (996) 49
Ligeti, E. and Fonyó, A.
Phosphate transport protein of rat heart mitochondria: location of its SH-groups and exploration of their environment (973) 170
Lilja, H., see Lindmark, B. (997) 90
Liljeborg, A., see Blombäck, B. (997) 96
Lilley, R.M.C., see Marengo, T. (976) 102
Lim, S.T., Krishnan, A.K. and Ong, K.K.
Purification and characterisation of the second form of cyclic 3′,5′-nucleotide phosphodiesterase from *Rhizobium fredii* (991) 353
Lin, S.-Q., see Kojro, Z. (985) 1
Lin, Y.-P., see Bonnel, S.I. (1005) 289
Lincoln, B.C., Aw, T.Y. and Bonkovsky, H.L.
Heme catabolism in cultured hepatocytes: evidence that heme oxygenase is the predominant pathway and that a proportion of synthesized heme is converted rapidly to biliverdin (992) 49
Lindahl, M., Von Schenck, H. and Tagesson, C.
Isolation and characterization of phospholipase A_2 from rat lung with affinity chromatography and two-dimensional gel electrophoresis (1005) 282
Lindahl, T. and Wiman, B.
Purification of high and low molecular weight plasminogen activator inhibitor 1 from fibrosarcoma cell-line HT 1080 conditioned medium (994) 253
Lindblom, G. and Rilfors, L.
Cubic phases and isotropic structures formed by membrane lipids – possible biological relevance (988) 221
Linderstrøm-Lang, K., see Anfinsen, C.B. (1000) 197
Lindmark, B., Lilja, H., Alm, R. and Eriksson, S.
The microheterogeneity of desialylated α_1-antichymotrypsin: the occurrence of two amino-terminal isoforms, one lacking a His-Pro dipeptide (997) 90
Lindsey, G.G. and Thompson, P.
Isolation and characterisation of a 167 bp core particle isolated from stripped chicken erythrocyte chromatin (1009) 257
Linebaugh, B.E., see Rillema, J.A. (1014) 78
Lineberger, B., Dawicki, D.D., Agarwal, K.C., Kessimian, N. and Steiner, M.
Permeabilization of platelets: an investigation of biochemical, ultrastructural and functional aspects (1012) 36
Ling, M.-f., see Towner, R.A. (993) 92
Linke, M.J., see Camulli, E.D. (1005) 177
Linnane, A.W.
Commentary by (1000) 365
Linnane, A.W., see Huang, M. (1000) 365
Linskens, M.H.K., see Umek, R.M. (1007) 1
Lints, T., Holland, R. and Ralph, R.K.
Cyclic AMP, calcium and the growth of mastocytoma cells (1013) 287

Lipka, G. and Hauser, H.
Phase behaviour of mixtures of lipid X with phosphatidylcholine and phosphatidylethanolamine (979) 239
Lis, L.J., see Cunningham, B.A. (984) 109
Littlemore, L.A., see Pope, J.M. (980) 69
Litwińska, J., see Biliński, T. (1001) 102
Liu, D. and Huang, L.
Role of cholesterol in the stability of pH-sensitive, large unilamellar liposomes prepared by the detergent-dialysis method (981) 254
Liu, H.-M., see He, J.-S. (1009) 301
Liu, L.F., see D'Arpa, P. (989) 163
Ljones, T., see Skjeldal, L. (995) 59
Ljungström, E., Yates, M.G. and Nordlund, S.
Purification of the activating enzyme for the Fe-protein of nitrogenase from *Azospirillum brasilense* (994) 210
Llanillo, M., see Middelkoop, E. (978) 241
Llinás, M., see De Marco, A. (994) 121
Lloyd, J.B., see Forster, S. (1013) 7
Lobet, Y., Lhoest, J. and Colson, C.
Partial purification and characterization of the specific protein-lysine *N*-methyltransferase of YL32, a yeast ribosomal protein (997) 224
Locher, M., Schwenk, M., Hannemann, H. and Sewing, K.-F.
Arachidonic acid metabolism in isolated gastric mucous and parietal cells (1003) 196
Locher, R., Sachinidis, A., Steiner, A., Vogt, E. and Vetter, W.
Fish oil affects phosphoinositide turnover and thromboxane A metabolism in cultured vascular muscle cells (1012) 279
Lockard, V.G., see Joshi, U.M. (1004) 309
Loehr, T.M., see Andersson, L.A. (974) 163
Löffler, B.-M. and Kunze, H.
Biospecific dye-binding and hydrophobic interaction chromatography as tools for high yield preparation of purified phospholipase A_1 from rat liver (1003) 225
Lohse, D. and Strotmann, H.
Reactions related with $\Delta\tilde{\mu}_{H^+}$-dependent activation of the chloroplast H^+-ATPase (976) 94
Lohse, D., Thelen, R. and Strotmann, H.
Activity equilibria of the thiol-modulated chloroplast H^+-ATPase as a function of the proton gradient in the absence and presence of ADP and arsenate (976) 85
Loidl, J., see Hermetter, A. (978) 151
Loiseau, D., see Simard, G. (1005) 245
Lombardi, P., Norata, G., Maggi, F.M., Canti, G., Franco, P., Nicolin, A. and Catapano, A.L.
Assimilation of LDL by experimental tumours in mice (1003) 301
Lombardo, D., see Abouakil, N. (1002) 225
Lombardo, D., see Abouakil, N. (1004) 215
Long, R.C., see Bonomi, F. (999) 147
Longbottom, D. and Van Heyningen, S.
The activation of rabbit intestinal adenylate cyclase by cholera toxin (1014) 289
Lönnendonker, U.
Use-dependent block of sodium channels in frog myelinated nerve by tetrodotoxin and saxitoxin at negative holding potentials (985) 153
Lönnendonker, U.
Binding of tetrodotoxin and saxitoxin to Na^+ channels at different holding potentials: fluctuation measurements in frog myelinated nerve (985) 161
Lönnendonker, U., see Weik, R. (983) 127
Lönnroth, I., see Torres, J.F. (998) 151
Loomes, K.M. and Kitson, T.M.
Studies of the action of symmetrical and mixed disulphide thiol-modifying reagents on the esterase activity of cytoplasmic aldehyde dehydrogenase (998) 1
Lopaschuk, G.D., see Wall, S.R. (1006) 97
López, A., see Palés, J. (980) 33
López, M.C., see Moran, A. (990) 288
Lopez-Aparicio, P., see Gutierrez-Ocaña, M.T. (1003) 67
Lopez-Corcuera, B., Kanner, B.I. and Aragón, C.
Reconstitution and partial purification of the sodium and chloride-coupled glycine transporter from rat spinal cord (983) 247
López-Soriano, F.J. and Alemany, M.
Effect of alanine on in vitro glucose utilization by rat interscapular brown adipose tissue (1010) 338
LoPresti, P. and Cohn, M.
Direct determination of creatine kinase equilibrium constants with creatine or cyclocreatine as substrate (998) 317
Lord, A., see Patrignani, P. (992) 71
Lorenz, B., Schneider, K., Kratzin, H. and Schlegel, H.G.
Immunological comparison of subunits isolated from various hydrogenases of aerobic hydrogen bacteria (995) 1
Lorenz, R.L., Uedelhoven, W.M., Fischer, S., Ruetzel, A. and Weber, P.C.
A critical evaluation of urinary immunoreactive thromboxane: feasibility of its determination as a potential vascular risk indicator (993) 259
Lorenzo, M., see Roncero, C. (1012) 320
Losada, M., see Ortega, J.M. (975) 244
Loseva, L.P., see Shatilov, V.R. (994) 222
Loseva, L.P., see Shatilov, V.R. (995) 17
Lotti, M., see Vanoni, M. (1008) 168
Lougovoi, C.P. and Kyriakidis, D.A.
Interconversion of *Tetrahymena pyriformis* ornithine decarboxylase from inactive to active form by phosphorylation (996) 70
Louis, C.F., see Ervasti, J.M. (986) 70
Louis, C.F., see Hur, K.C. (1010) 56
Louisot, P., see Gasnier, F. (980) 339
Lous, E.J. and Hoff, A.J.
Isotropic and linear dichroic triplet-minus-singlet absorbance difference spectra of two carotenoid-containing bacterial photosynthetic reaction centers in the temperature range 10–288 K. An analysis of bacteriochlorophyll-carotenoid triplet transfer (974) 88
Lovelace, D.E., see Simmerman, H.K.B. (997) 322
Low, M.G.
The glycosyl-phosphatidylinositol anchor of membrane proteins (988) 427
Lown, J.W., see Burckhardt, G. (1009) 11
Loyter, A., see Keren-Zur, M. (983) 253
Loyter, A., see Lapidot, M. (980) 281
Lozano, R.M., Manzano, I., Gómez, R. and Ramírez, J.M.
Changes in the native carotenoid of bacterial pigment-protein complexes (976) 196
Lu, H.-Z., see Fung, L.W.-M. (982) 167
Lu, K.-S., see Liao, T.-H. (1007) 15
Lubin, B.H., see Middelkoop, E. (978) 241
Lubin, B.H., see Middelkoop, E. (981) 151
Lubin, E., see Lavie, E. (991) 62
Lubitz, W., Isaacson, R.A., Okamura, M.Y., Abresch, E.C., Plato, M. and Feher, G.
ENDOR studies of the intermediate electron acceptor radical anion $I^{\pm}$ in Photosystem II reaction centers (977) 227
Lubochinsky, B., see Lacombe, C. (1005) 103
Lucchelli, P.E., see D'Agostino, L. (993) 228
Luck, G., see Burckhardt, G. (1009) 11
Ludwig, O., Benz, R. and Schultz, J.E.
Porin of *Paramecium* mitochondria isolation, characterization and ion selectivity of the closed state (978) 319
Luk, G.D., see Majumdar, A.P.N. (992) 35
Lukasiewicz, H., see Niewiarowski, S. (983) 91
Lumb, R.H., see Turner, M.R. (1004) 49
Lunazzi, G.C., see Miccio, M. (981) 115
Lund, L.R., see Jensen, P.H. (986) 135
Lund, P. and Wiggins, D.
Chelating agents and rat liver mitochondria (975) 330

Lundahl, P., see Öjteg, G. (991) 317
Lundahl, P., see Wallstén, M. (982) 47
Lundberg, P., Vogel, H., Drakenberg, T., Forsén, S., Amiconi, G., Forlani, L. and Chiancone, E.
A $^{35}Cl^-$-NMR study of the singular anion-binding properties of dromedary hemoglobin (999) 12
Lund-Katz, S., see Bigler, R.D. (1011) 102
Lüthje, S. and Böttger, M.
Hexabromoiridate IV as an electron acceptor: comparison with hexachloroiridate IV and hexacyanoferrate III (977) 335
Lutz, M., see Zhou, Q. (977) 10
Lyle, I.G., see Hutchinson, F.J. (978) 17
Lyle, I.G., see Hutchinson, F.J. (987) 212
Lynch, A.M., Meats, J.E., Best, L. and Tomlinson, S.
Effects of nutrient and non-nutrient stimuli on cytosolic pH in cultured insulinoma (HIT-T15) cells (1012) 166
Lynch, D.V. and Steponkus, P.L.
Lyotropic phase behavior of unsaturated phosphatidylcholine species: Relevance to the mechanism of plasma membrane destabilization and freezing injury (984) 267
Lynen, F. and Ochoa, S.
on 'Enzymes of fatty acid metabolism' (1000) 279

M

Ma, J.Y.C., LaCagnin, L.B., Bowman, L. and Miles, P.R.
Carbon tetrachloride inhibits synthesis of pulmonary surfactant disaturated phosphatidylcholines and ATP production in alveolar type II cells (1003) 136
Ma, L.D., Magin, R.L., Bacic, G. and Dunn, F.
The effects of ^2H_2O on the phase transition of large unilamellar vesicle (LUV) suspensions as detected by ultrasound spectroscopy and electron spin resonance (978) 283
MacColl, R., see Guard-Friar, D. (973) 118
MacDonald, J.I.S. and Sprecher, H.
Studies on the incorporation and transacylation of various fatty acids in choline and ethanolamine-containing phosphoacylglycerol subclasses in human neutrophils (1004) 151
MacDougall, L.K., Campbell, D.G., Hubbard, M.J. and Cohen, P.
Partial structure and hormonal regulation of rabbit liver inhibitor-1; distribution of inhibitor-1 and inhibitor-2 in rabbit and rat tissues (1010) 218
Macey, R.I., see Yousef, L.W. (984) 281
Machovich, R., see Spolarics, Z. (1012) 231
Machy, P., see Milhaud, P.G. (987) 15
Mack, E., see Rothstein, A. (987) 239
MacKenzie, N.E., Plaisted, S.M. and Brems, D.N.
Proton nuclear magnetic resonance study of the histidine residues of pituitary bovine growth hormone (994) 166
MacKenzie, R.E., see Findlay, W.A. (999) 52
Mackenzie, R.K., see Steadman, R. (1013) 21
Mackie, E.J.B., Dwyer, N.K., Vanier, M.T., Sokol, J., Merrick, H.F., Comly, M.E., Argoff, C.E. and Pentchev, P.G.
Type C Niemann-Pick disease: dimethyl sulfoxide moderates abnormal LDL-cholesterol processing in mutant fibroblasts (1006) 219
Mackiewicz, M., see Krawczyk, Z. (1009) 237
Mackinnon, A.M., see Whiting, M.J. (1001) 176
Mackinnon, A.M., see Whiting, M.J. (1005) 137
MacKintosh, R.W., Hardie, D.G. and Slabas, A.R.
A new assay procedure to study the induction of β-ketoacyl-ACP synthase I and II, and the complete purification of β-ketoacyl-ACP synthase I from developing seeds of oilseed rape (*Brassica napus*) (1002) 114
Maclachlan, G.A., see Brummell, D.A. (1014) 298
Macpherson, A.J.S., see Chester, K.A. (1009) 297
MacQuarrie, R.A., see Sanjanwala, M. (1006) 203
Macrì, F., see Vianello, A. (980) 202
Madaiah, M., see Shet, M.S. (991) 465
Madec, C., see Mantsch, H.H. (980) 42
Madeira, V.M.C., see Antunes-Madeira, M.C. (982) 161
Madias, N.E., see Hilden, S.A. (983) 77
Madsen, N.B., see Kornberg, H.L. (1000) 271
Maekawa, S., Hibasami, H., Uji, Y. and Nakashima, K.
Active transport and metabolic characteristics of polyamines in the rat lens (993) 199
Magasanik, B. and Chargaff, E.
on 'Studies on the structure of ribonucleic acids' (1000) 15
Magee, P.T., see Pugh, T.A. (994) 200
Maget-Dana, R., Harnois, I. and Ptak, M.
Interactions of the lipopeptide antifungal iturin A with lipids in mixed monolayers (981) 309
Maget-Dana, R., see Lakey, J.H. (985) 60
Maggi, F.M., see Lombardi, P. (1003) 301
Magin, R.L., see Ma, L.D. (978) 283
Maglova, L., Atanasov, B. and Keszthelyi, L.
Unfolding of monomeric bacteriorhodopsin in water-urea solution (975) 271
Magnani, M., see Fazi, A. (998) 286
Magnuson, J.S., see Hutchens, T.W. (999) 323
Magócsi, M., Sarkadi, B., Kovács, T. and Gárdos, G.
Thrombin-induced activation of calcium transport pathways and their role in platelet functions (984) 88
Magos, L., Clarkson, T.W. and Hudson, A.R.
The effects of dose of elemental mercury and first-pass circulation time on exhalation and organ distribution of inorganic mercury in rats (991) 85
Magous, R., Galleyrand, J.-C. and Bali, J.-P.
Common or distinct receptors for gastrin and cholecystokinin in gastric mucosa? (1010) 357
Magous, R., see Roche, S. (1014) 313
Mahesh, V.B., see Kulanthaivel, P. (985) 139
Mahfouz, M.M., Smith, T.L. and Kummerow, F.A.
Changes in phospholipid composition and calcium flux in LLC-PK cells cultured at low magnesium concentrations (1006) 75
Mahfouz, M.M., Smith, T.L. and Kummerow, F.A.
Changes of linoleic acid metabolism and cellular phospholipid fatty acid composition in LLC-PK cells cultured at low magnesium concentrations (1006) 70
Mahlberg, F., see Martigne, M. (979) 341
Maier, R.J., see O'Brian, M.R. (974) 229
Maincent, P., see Anghileri, L.J. (982) 307
Maiorino, M., see Zhang, L. (1006) 140
Mais, D.E., Yoakim, C., Guindon, Y., Gillard, J.W., Rokach, J. and Halushka, P.V.
Photoaffinity labelling of the human platelet thromboxane A_2/prostaglandin H_2 receptor (1012) 184
Majander, A. and Wikström, M.
The plasma membrane potential of human neutrophils. Role of ion channels and the sodium/potassium pump (980) 139
Majima, T., see Oarada, M. (1012) 156
Majumdar, A.P.N., Moshier, J.A., Arlow, F.L. and Luk, G.D.
Biochemical changes in the gastric mucosa after injury in young and aged rats (992) 35
Majumdar, S., see Gumbhir, K. (981) 77
Majumder, G.C., see Roy, N. (991) 114
Mak, P.R., see Van Urk, H. (992) 78
Maki, T., Kowatch, M.A., Baum, B.J., Ambudkar, I.S. and Roth, G.S.
Evidence for an alteration in the microsomal Ca^{2+} release mechanism in senescent rat parotid acinar cells (1014) 73
Makimoto, S., Nishida, H. and Taniguchi, Y.

Pressure effects on thermal inactivation of Taka-amylase A (996) 233
Makriyannis, A., Banijamali, A., Jarrell, H.C. and Yang, D.-P.
The orientation of (−)-Δ^9-tetrahydrocannabinol in DPPC bilayers as determined from solid-state ^{2}H-NMR (986) 141
Malaisse-Lagae, F., Liemans, V., Yaylali, B., Sener, A. and Malaisse, W.J.
Phosphoglucoisomerase-catalyzed interconversion of hexose phosphates; comparison with phosphomannoisomerase (998) 118
Malaisse-Lagae, F., see Liemans, V. (998) 111
Malaisse, W.J., Blachier, F., Mourtada, A., Camara, J., Albor, A., Valverde, I. and Sener, A.
Stimulus-secretion coupling of arginine-induced insulin release. Metabolism of L-arginine and L-ornithine in pancreatic islets (1013) 133
Malaisse, W.J., see Blachier, F. (1013) 144
Malaisse, W.J., see Liemans, V. (998) 111
Malaisse, W.J., see Malaisse-Lagae, F. (998) 118
Malatesta, V., see Andreoni, A. (1014) 8
Malatesta, V., see Andreoni, A. (990) 190
Malchow, D., see Aeckerle, S. (1012) 196
Malcolm, A.D.B., see Chester, K.A. (1009) 297
Malkin, R., see Adam, Z. (975) 158
Mallet, B., see Lejeune, P.-J. (990) 122
Malmström, B., see Öblad, M. (975) 267
Malmström, B.G., see Fabian, M. (973) 414
Malmström, B.G., see Öblad, M. (975) 267
Malmström, B.G., see Oliveberg, M. (977) 322
Mamedov, M.D., see Drachev, L.A. (973) 189
Man, R.Y.K., see Choy, P.C. (1005) 225
Mancinelli, G., see Arduini, A. (979) 1
Mancini, P., see Pavan, A. (978) 158
Mandel, T. and Trachsel, H.
Yeast, *Saccharomyces cerevisiae*, cell-free translation: the inhibition of translation by high temperature is reversible (1007) 80
Mandl, J., see Spolarics, Z. (1012) 231
Mandla, S., see Boneh, A. (1012) 308
Mangold, J.B., Spina, A. and McCann, D.J.
Sulfation of mono- and diaryl oximes by aryl sulfotransferase isozymes (991) 453
Mann, P.L., see Busse, S.C. (984) 183
Mann, S., see Ward, R.J. (993) 131
Mann, W.A., Gregg, R.E., Sprecher, D.L. and Brewer, Jr., H.B.
Apolipoprotein E-$1_{Harrisburg}$: a new variant of apolipoprotein E dominantly associated with type III hyperlipoproteinemia (1005) 239
Mannaerts, G.P., see Lemmens, M. (984) 351
Mannella, C.A. and Wang, Q.
Permeability of the mitochondrial outer membrane to organic cations (981) 363
Mannella, C.A.
Fusion of the mitochondrial outer membrane: use in forming large, two-dimensional crystals of the voltage-dependent, anion-selective channel protein (981) 15
Mannherz, H.G., see Risse, G. (994) 258
Mannherz, H.G., see Stochaj, U. (992) 385
Mano, N., see Okabe, N. (990) 303
Manoharan, P.T., see Levy, A. (991) 97
Manon, S. and Guerin, M.
Modifications of the relative proteolipid composition in the ATP synthase of a respiratory competent mutant of *Saccharomyces cerevisiae* (985) 127
Månsson, J.-E., see Svennerholm, L. (1005) 109
Mansurova, S.E.
Inorganic pyrophosphate in mitochondrial metabolism (977) 237
Mantovani, G., see Sartorelli, L. (1006) 15
Mantsch, H.H., Madec, C., Lewis, R.N.A.H. and McElhaney, R.N.
An infrared spectroscopic study of the thermotropic phase behavior of phosphatidylcholines containing ω-cyclohexyl fatty acyl chains (980) 42
Mantsch, H.H., see Casal, H.L. (982) 228
Mantsch, H.H., see Wong, P.T.T. (980) 37
Mantsch, H.H., see Wong, P.T.T. (996) 260
Manzano, I., see Lozano, R.M. (976) 196
Marchand, J., see Blachier, F. (1013) 144
Marchesini, S., Viani, P., Cestaro, B. and Gatt, S.
Synthesis of pyrene derivatives of cerebroside sulfate and their use for determining arylsulfatase A activity (1002) 14
Marchesini, S., see Viani, P. (1002) 20
Marchiori, F., see Dobrowolska, G. (1010) 274
Marcocci, L., Mavelli, I., Di Giulio, A., Pedersen, J.Z., Desideri, A. and Rotilio, G.
Room temperature electron spin resonance of superoxide dismutase-loaded liposomes and erythrocytes. A direct approach to the interaction of O_2^- with cells (979) 99
Marcus, D.C. and Marcus, N.Y.
Transepithelial electrical responses to Cl^- of nonsensory region of gerbil utricle (987) 56
Marcus, N.Y., see Marcus, D.C. (987) 56
Maréchal, D., see Verly, W.G. (1008) 183
Mareck, A.M., see Bessam, H. (990) 66
Marengo, T., Brown, A.D. and Lilley, R.M.C.
The response of the green halotolerant alga *Dunaliella* to osmotic stress: effects on adenine nucleotide contents (976) 102
Maret, A., Potier, M., Salvayre, R., Troly, M., Beauregard, G. and Douste-Blazy, L.
In vitro detergent activation of lysosomal acid β-glucosidase in the spleen of normal and type 1 Gaucher patients is not accompanied by change in aggregation state (996) 254
Margis, R. and Borojevic, R.
Retinoid-mediated induction of the fat-storing phenotype in a liver connective tissue cell line (GRX) (1011) 1
Margni, R.A., see Borel, I.M. (990) 162
Marie, S. and Cresteil, T.
Phenobarbital-inducible gene expression in developing rat liver: relationship to hepatocyte function (1009) 221
Marijnen, Y.M.T., De Korte, D., Haverkort, W.A., Den Breejen, E.J.S., Van Gennip, A.H. and Roos, D.
Studies on the incorporation of precursors into purine and pyrimidine nucleotides via 'de novo' and 'salvage' pathways in normal lymphocytes and lymphoblastic cell-line cells (1012) 148
Marinello, E., see Leoncini, R. (994) 52
Marks, V., see Al-Ahkras, G. (993) 275
Markus, J., see Lepock, J.R. (980) 191
Maroder, M., Vacca, A., Screpanti, I., Petrangeli, E., Frati, L. and Gulino, A.
Enhancement of c-*erbA* proto-oncogene expression by glucocorticoid hormones in S49.1 lymphoma cells (1009) 188
Maroto, F.G., see Mateu, M.G. (1007) 55
Marriott, S.J. and Brady, J.N.
Enhancer function in viral and cellular gene regulation (989) 97
Marron, B.E., see Nicolaou, K.C. (1003) 44
Marsh, D., see Esmann, M. (978) 209
Marsh, D., see Li, G. (987) 187
Marsh, D., see Sankaram, M.B. (980) 389
Marsh, D., see Sankaram, M.B. (986) 315
Martens, M.F.W.C. and Hendriks, T.
Collagen synthesis in explants from rat intestine (993) 252
Martigne, M., Melin, B., Mahlberg, F., Domingo, N., Chanussot, F., Lafont, H. and Hauton, J.C.
Detection and characterization of anionic polypeptidic fraction binding sites in rat liver plasma membranes and cultured hepatocytes (979) 341
Martin, G., see Vincent, N. (1014) 184

Martin, M., see Sanchez, M. (990) 225
Martin, M.-E., see Vallette, G. (997) 302
Martinek, K., Klyachko, N.L., Kabanov, A.V., Khmelnitsky, Y.L. and Levashov, A.V.
Micellar enzymology: its relation to membranology (981) 161
Martinek, K., see Kabanov, A.V. (996) 147
Martinez, J., see Stark, H.A. (1010) 145
Martínez, J.P., Giménez, G. and Bartnicki-García, S.
Sedimentation properties of chitosomal chitin synthetase from the wild-type strain and the 'slime' variant of *Neurospora crassa* (990) 45
Martin-Nizard, F., Meresse, S., Cecchelli, R., Fruchart, J.C. and Delbart, C.
Interactions of high-density lipoprotein 3 with brain capillary endothelial cells (1005) 201
Martinoia, E., see Dietz, K.-J. (984) 57
Martins, I.J., Lenzo, N.P. and Redgrave, T.G.
Phosphatidylcholine metabolism after transfer from lipid emulsions injected intravenously in rats. Implications for high-density lipoprotein metabolism (1005) 217
Martonosi, A.
Calcium regulation in muscle diseases; the influence of innervation and activity (991) 155
Martonosi, A., see Buchet, R. (983) 167
Martonosi, A., see Keresztes, T. (984) 326
Martorana, G.E., see Meucci, E. (999) 58
Maruo, B., see Benson, A.A. (1000) 447
Maruo, B., see Benson, A.A. (1000) 447
Maruyama, Y., see Sata, H. (991) 388
Marzin, D., see Benhamamouch, S. (1002) 45
Marzuki, S., Watkins, L.C. and Choo, W.M.
Mitochondrial H^+-ATPase in mutants of *Saccharomyces cerevisiae* with defective subunit 8 of the enzyme complex (975) 222
Masamune, Y., see Shibata, H. (1007) 184
Masella, R., see Alvaro, D. (1006) 116
Masibay, A.S., see Oka, K. (1008) 351
Masini, A., Ceccarelli, D., Trenti, T., Corongiu, F.P. and Muscatello, U.
Perturbation in liver mitochondrial Ca^{2+} homeostasis in experimental iron overload: a possible factor in cell injury (1014) 133
Masini, A., see Botti, B. (992) 327
Mason, M.J., see Grinstein, S. (988) 73
Mason, P.A. and Nelson, D.L.
Cyclic AMP-dependent protein kinases of *Paramecium*. II. Catalytic and regulatory properties of type II kinase from cilia (1010) 116
Mason, P.A. and Nelson, D.L.
Cyclic AMP-dependent protein kinases of *Paramecium*. I. Chromatographic and physical properties of the enzymes from cilia (1010) 108
Mason, R.J., see Emrie, P.A. (994) 215
Mason, R.J., see Fisher, J.H. (995) 225
Masoom, M., see Roberti, R. (1004) 80
Masserini, M., see Pessina, A. (1013) 206
Massey, J.B., Hickson-Bick, D.L.M., Gotto, Jr., A.M. and Pownall, H.J.
Kinetics of tryptic hydrolysis as a probe of the structure of human plasma apolipoprotein A-II (999) 121
Massey, J.B. and Pownall, H.J.
Spectroscopic studies of the tyrosine residues of human plasma apolipoprotein A-II (999) 111
Masson, P.
A naturally occurring molecular form of human plasma cholinesterase is an albumin conjugate (998) 258
Masters, D.J., see McMillan, R.M. (1005) 170
Mastrocinque, M., see Andreoni, A. (1014) 8
Masuda, T., see Egawa, T. (995) 207
Masuno, H., see Oka, K. (1008) 351
Masuzawa, Y., Sugiura, T., Sprecher, H. and Waku, K.
Selective acyl transfer in the reacylation of brain glycerophospholipids. Comparison of three acylation systems for 1-alk-1′-enylglycero-3-phosphoethanolamine, 1-acylglycero-3-phosphoethanolamine and 1-acylglycero-3-phosphocholine in rat brain microsomes (1005) 1
Matasova, N.B., see Graifer, D.M. (1008) 146
Matern, H. and Matern, S.
Control of dolichyl phosphoglucose formation in human liver microsomes. Kinetic and inhibition studies of nucleosides, nucleotides and analogues of UDPglucose (1004) 67
Matern, S., see Matern, H. (1004) 67
Mateu, M.G., Maroto, F.G., Vicente, O. and Sierra, J.M.
Phosphorylation and guanine nucleotide exchange on polypeptide chain initiation factor-2 from *Artemia* embryos (1007) 55
Mathai, J.C. and Sitaramam, V.
Variable porosity of the mitochondrial inner membrane induced by energization (976) 214
Mathai, J.C., see Sitaramam, V. (975) 252
Matharoo, B., see Strange, R.C. (993) 186
Mathé, D., see Guettet, C. (1005) 233
Mathias, P.C.F., see Blachier, F. (1013) 144
Mathis, P., see Van Mieghem, F.J.E. (977) 207
Mathur, S.N., Albright, E. and Field, F.J.
Regulation of 12-hydroxyicosatetraenoic acid synthesis by acetyl-LDL in mouse peritoneal macrophages (1001) 50
Matinyan, N.S., Melikyan, G.B., Arakelyan, V.B., Kocharov, S.L., Prokazova, N.V. and Avakian, T.M.
Interaction of ganglioside-containing planar bilayers with serotonin and inorganic cations (984) 313
Matkó, J., see Mechler, F. (1012) 227
Matschinsky, F.M., see Geschwind, J.-F. (1012) 107
Matsubara, T., see Hayashi, A. (1006) 89
Matsuguchi, T., see Ueno, T. (1009) 27
Matsui, H., see Hayashi, Y. (983) 217
Matsui-Yuasa, I., Otani, S., Morisawa, S., Kageyama, K. and Onoyama, Y.
Control by hyperthermia of ornithine decarboxylase in Ehrlich ascites tumor cells (1014) 225
Matsumoto, N., see Kim, J.W. (1008) 79
Matsumura, Y., see Katsurada, A. (1004) 103
Matsumura, Y., see Katsurada, A. (1006) 104
Matsunaga, A., Miller, B.C. and Cottam, G.L.
Dehydroisoandrosterone prevention of autoimmune disease in NZB/W F_1 mice: lack of an effect on associated immunological abnormalities (992) 265
Matsunaga, T., see Kawashima, Y. (1005) 123
Matsunaga, T., see Kawashima, Y. (1006) 214
Matsuo, H., see Kawano, J.-i. (997) 199
Matsushima, N. and Hikichi, K.
Age changes in the crystallinity of bone mineral and in the disorder of its crystal (992) 155
Matsuzaki, K., Harada, M., Handa, T., Funakoshi, S., Fujii, N., Yajima, H. and Miyajima, K.
Magainin 1-induced leakage of entrapped calcein out of negatively-charged lipid vesicles (981) 130
Matsuzaki, K., Yokoyama, I., Komatsu, H., Handa, T. and Miyajima, K.
A fluorescent probing study on microenvironments in bile salt micelles and bile salt/phosphatidylcholine mixtures in the absence or presence of cholesterol (980) 371
Matsuzawa, Y., see Shioda, M. (1007) 254
Matthews, A., see Knight, C.G. (985) 75
Matthews, P.L.J., see Keough, K.M.W. (983) 51
Matthijs, H.C.P., Van der Staay, G.W.M., Van Amerongen, H., Van Grondelle, R. and Garab, G.

Structural organization of chlorophyll *b* in the prochlorophyte *Prochlorothrix hollandica* (975) 185
Matthijs, H.C.P., see Van der Staay, G.W.M. (975) 317
Maurer, U., see Schaer, J.-C. (1009) 90
Mauzerall, D. and Greenbaum, N.L.
The absolute size of a photosynthetic unit (974) 119
Mavelli, I., see Marcocci, L. (979) 99
Mawatari, K., see Imaizumi, K. (1005) 253
Maxfield, F., see Collins, D. (987) 47
Maxson, P., Sauer, K., Zhou, J., Bryant, D.A. and Glazer, A.N.
Spectroscopic studies of cyanobacterial phycobilisomes lacking core polypeptides (977) 40
May, B.K., see Srivastava, G. (1007) 192
May, G., see Leake, D.S. (1005) 196
May, J.M.
Differential labeling of the erythrocyte hexose carrier by *N*-ethylmaleimide: correlation of transport inhibition with reactive carrier sulfhydryl groups (986) 207
Maya, M., see Savu, L. (992) 379
Mayer, F., see Rohde, M. (985) 233
Mayer, R.J., see Fernig, D.G. (1010) 237
Mayeux, P., see Trentesaux, C. (1012) 161
Mayeux, P.R., Kadowitz, P.J. and McNamara, D.B.
Evidence for a bidirectional prostaglandin endoperoxide shunt between platelets and the bovine coronary artery (1011) 18
Maynard, C.L., see Wyse, J.W. (979) 127
Mays-Ichinco, C.A., see Ramanathan, L. (1007) 283
Mazerski, J., see Milhaud, J. (987) 193
Mazliak, P., see Justin, A.M. (1005) 51
Mazure, A., see Egberts, J. (1002) 109
Mazzacca, G., see D'Agostino, L. (993) 228
McAteer, J.A., see Al-Mahrouq, H.A. (981) 200
McCann, D.J., see Mangold, J.B. (991) 453
McCarthy, A.D., see Williams, R.J. (1003) 213
McCarty, R.E., see Xiao, J. (976) 203
McColl, A.S., see Daumy, G.O. (998) 32
McCormack, J.G., Browne, H.M. and Dawes, N.J.
Studies on mitochondrial Ca^{2+}-transport and matrix Ca^{2+} using fura-2-loaded rat heart mitochondria (973) 420
McCray, Jr., W.H., see Doetsch, P.W. (1007) 309
McCroskey, M.C., Palazuk, B.J., Pierce-Ramsey, P.A., Colca, J.R. and Pearson, J.D.
Insulin-like effects of histones H3 and H4 on isolated rat adipocytes (1011) 212
McCrury, J., see Komuniecki, R. (975) 127
McCullough, M.L., see McGuire, M.J. (995) 181
McCutchan, J.A., see Volberding, P.A. (989) 227
McDaniel, M.L., see Turk, J. (1001) 16
McDaniel, R.V. and McIntosh, T.J.
Neutron and X-ray diffraction structural analysis of phosphatidylinositol bilayers (983) 241
McElhaney, R.N., see Mantsch, H.H. (980) 42
McEwan, A.G., Richardson, D.J., Hudig, H., Ferguson, S.J. and Jackson, J.B.
Identification of cytochromes involved in electron transport to trimethylamine *N*-oxide/dimethylsulphoxide reductase in *Rhodobacter capsulatus* (973) 308
McGarrity, A.M., see Thomson, B.M. (1014) 125
McGregor, L., see Bolton-Smith, C. (1005) 183
McGuire, M.J., McCullough, M.L., Croall, D.E. and DeMartino, G.N.
The high molecular weight multicatalytic proteinase, macropain, exists in a latent form in human erythrocytes (995) 181
McHale, A.P., see Hackett, T.J. (991) 248
McIntire, L.V., see Nollert, M.U. (1005) 72
McIntosh, T.J., see McDaniel, R.V. (983) 241
McKelvy, J.F., see Clagett-Dame, M. (986) 271
McKersie, B.D., Crowe, J.H. and Crowe, L.M.
Free fatty acid effects on leakage, phase properties and fusion of fully hydrated model membranes (982) 156
McKersie, B.D., see Crowe, J.H. (979) 7
McLaughlin, S., see Gabev, E. (979) 105
McLean, A.J., see Andreoni, A. (990) 190
McLennan, I., see Verdery, R.B. (1006) 287
McLoughlin, P., see Khoo, J.C. (1012) 215
McManus, M.E., see Whiting, M.J. (1001) 176
McMillan, R.M., Masters, D.J., Vickers, V.C., Dicken, M.P. and Jacobs, V.N.
Metabolism of unsaturated fatty acids by RBL-1 5-lipoxygenase: influence of substrate solubility and product inactivation (1005) 170
McMorrow, I., Shuman, H.A., Sze, D., Wilson, D.M. and Wilson, T.H.
Sodium/proton antiport is required for growth of *Escherichia coli* at alkaline pH (981) 21
McMurray, W.C., see Veldhuizen, R.A.W. (1005) 157
McNamara, D.B., see Mayeux, P.R. (1011) 18
McNeil, M., see Abei, M. (995) 279
McNerney, R., Tavasolli, M., Shall, S., Brazinski, A. and Johnstone, A.
Changes in mRNA levels of poly(ADP-ribose) polymerase during activation of human lymphocytes (1009) 185
McNulty, I., see Rothman, S.S. (991) 484
McPherson, M.A., see Doughney, C. (1010) 352
McQuaid, K., see Rothman, S.S. (991) 484
Meacci, E., see Vasta, V. (1011) 165
Meats, J.E., see Lynch, A.M. (1012) 166
Mechler, F., Molnár, M., Balázs, M. and Matkó, J.
Intracellular free calcium concentration in lymphocytes of patients with muscular dystrophies (1012) 227
Meddings, J.B.
Lipid permeability of the intestinal microvillus membrane may be modulated by membrane fluidity in the rat (984) 158
Medoff, G., see Brajtburg, J. (985) 307
Medow, M.S., see Roth, K.S. (987) 38
Medvedeva, N.V., see Victorov, A.V. (984) 119
Meeldijk, J., see De Cock, H. (985) 313
Meerwaldt, R., see Eker, A.P.M. (990) 80
Meggio, F. and Pinna, L.A.
Random tyrosine and glutamic acid-containing polymers are very powerful inhibitors of casein kinase-2 (1010) 128
Meggio, F., see Dobrowolska, G. (1010) 274
Meghji, S., see Sandy, J.R. (1010) 265
Meguri, H., see Yoneda, Y. (1012) 74
Mehari, T., see Parrett, K.G. (973) 324
Mehdi, S., see Skoog, M.T. (996) 89
Mehendale, H.M., see Joshi, U.M. (1004) 309
Mehlhorn, I.E., Barber, K.R., Florio, E. and Grant, C.W.M.
A comparison of physical behaviour amongst four glycosphingolipid families (986) 281
Mehlich, A., Beckmann, J., Wenzel, H.R. and Tschesche, H.
Semisynthetic aprotinin derivatives with specific alterations at the reactive-site peptide bond can be used to study structure–function relationships (996) 23
Mehrle, W., Hampp, R. and Zimmermann, U.
Electric pulse induced membrane permeabilisation. Spatial orientation and kinetics of solute efflux in freely suspended and dielectrophoretically aligned plant mesophyll protoplasts (978) 267
Mei, G., see Rosato, N. (996) 195
Meijer, J., see Fu, J.Y. (1006) 121
Meikle, M.C., see Sandy, J.R. (1010) 265
Meikle, M.C., see Thomson, B.M. (1014) 125
Meinhardt, S.W., Gennis, R.B. and Ohnishi, T.

EPR studies of the cytochrome-*d* complex of *Escherichia coli* (975) 175
Meixner-Monori, B., see Hofer, F. (992) 298
Melandri, B.A., see Gabellini, N. (974) 202
Melchior, D.L., see Naderi, S. (985) 173
Melford, K.H., see Cisar, L.A. (1004) 196
Melikyan, G.B., see Matinyan, N.S. (984) 313
Melin, B., see Martigne, M. (979) 341
Melis, A., see Sanders, C.E. (976) 168
Mellgren, R.L., Lane, R.D. and Mericle, M.T.
The binding of large calpastatin to biologic membranes is mediated in part by interaction of an amino terminal region with acidic phospholipids (999) 71
Melrose, J., see Cole, T.-C. (990) 254
Menabò, R., see Di Lisa, F. (973) 185
Menegatti, E., see Ascenzi, P. (998) 210
Menegatti, E., see Nastruzzi, C. (1013) 36
Menestrina, G., see Ropele, M. (985) 9
Menhart, N., see Goh, C.J. (990) 240
Menkveld, G.J., see IJzerman, A.P. (979) 153
Menschikov, G.B., see Fuki, I.V. (1001) 235
Merenda, J.M., see Daumy, G.O. (998) 32
Meresse, S., see Martin-Nizard, F. (1005) 201
Mericle, M.T., see Mellgren, R.L. (999) 71
Merino, M., Polache, A., Peris-Ribera, J.E., Moreno-Dalmau, J. and Plá-Delfina, J.M.
Absorption kinetics of β-alanine as model compound in rat small intestine (986) 1
Merlini, G., see Ferri, G. (995) 103
Mermelstein, F.H., Flores, O. and Reinberg, D.
Initiation of transcription by RNA polymerase II (1009) 1
Merot, J., Bidet, M., Le Maout, S., Tauc, M. and Poujeol, P.
Two types of K^+ channels in the apical membrane of rabbit proximal tubule in primary culture (978) 134
Merrick, H.F., see Mackie, E.J.B. (1006) 219
Merrill, Jr., A.H. and Stevens, V.L.
Modulation of protein kinase C and diverse cell functions by sphingosine – a pharmacologically interesting compound linking sphingolipids and signal transduction (1010) 131
Merrill, S.H., see Holley, R.W. (1000) 99
Mersel, M., see Kupferberg, A. (1013) 231
Meryhew, N.L., Westling, P.R., Eerdmans, M.E., Janecek, E.J. and Runquist, O.A.
A kinetic study of erythrocyte-DNA/anti-DNA immune complex association and dissociation reactions in systemic lupus erythematosus (991) 470
Messer, J.V., see Barron, J.T. (976) 42
Messner, R., see Hofer, F. (992) 298
Messner, R., see Mischak, H. (990) 1
Mets, L., see Galloway, R. (975) 66
Mets, L.J., see Chan, C.K. (975) 59
Meucci, E., Mordente, A., Miggiano, G.A.D. and Martorana, G.E.
Fluorescence studies of ascorbate–melittin interaction (999) 58
Meulendijks, G.H.W.M., Sonderkamp, T., Dubois, J.E., Nielen, R.J., Kremers, J.A. and Buck, H.M.
The different influences of ether and ester phospholipids on the conformation of gramicidin A. A molecular modelling study (979) 321
Meuwissen, J.A.T.P., see Heirwegh, K.P.M. (995) 151
Meves, H. and Nagy, K.
Multiple conductance states of the sodium channel and of other ion channels (988) 99
Meyer, B., Schlodder, E., Dekker, J.P. and Witt, H.T.
O_2 evolution and Chl a_{II}^+ (P-680$^+$) nanosecond reduction kinetics in single flashes as a function of pH (974) 36
Meyer, B.J., Ha, Y.C. and Barter, P.J.
Effects of experimental hypothyroidism on the distribution of lipids and lipoproteins in the plasma of rats (1004) 73
Meyer, H.W., see Engel, J. (985) 111
Meyer, H.W., see Hentschel, M. (980) 169
Meyer, H.W., see Pratsch, L. (980) 146
Meyer, J.G.
Lipolytic enzymes of the human pancreas. II. Purification and properties of cholesterol ester hydrolase (1002) 89
Meyer, R. and Pistorius, E.K.
Partial characterization of an arginine-metabolizing enzyme from the thermophilic cyanobacterium *Synechococcus* sp. (975) 80
Meyer, T.E. and Cusanovich, M.A.
Structure, function and distribution of soluble bacterial redox proteins (975) 1
Meyer, U., see Krüger, S. (1001) 9
Meyn, R.E., see Cantoni, O. (1014) 1
Miccio, M., Baldini, G., Basso, V., Gazzin, B., Lunazzi, G.C., Tiribelli, C. and Sottocasa, G.L.
Bilitranslocase is the protein responsible for the electrogenic movement of sulfobromophthalein in plasma membrane vesicles from rat liver: immunochemical evidence using mono- and poly-clonal antibodies (981) 115
Michael, S.K., see Lanclos, K.D. (1008) 109
Michalak, M., see Fliegel, L. (982) 1
Michel-Beyerle, M.E., see Bixon, M. (977) 273
Michel, H., see Fritzsch, G. (977) 157
Michelangeli, F., Ruiz, M.-C., Fernández, E. and Ciarrocchi, A.
Role of Ca^{2+} in H^+ transport by rabbit gastric glands studied with A23187 and BAPTA, an incorporated Ca^{2+} chelator (983) 82
Mickelson, J.R., see Ervasti, J.M. (986) 70
Middaugh, C.R., see Aird, S.D. (997) 211
Middaugh, C.R., see Aird, S.D. (997) 219
Middelkoop, E., Coppens, A., Llanillo, M., Van der Hoek, E.E., Slotboom, A.J., Lubin, B.H., Op den Kamp, J.A.F., Van Deenen, L.L.M. and Roelofsen, B.
Aminophospholipid translocase in the plasma membrane of Friend erythroleukemic cells can induce an asymmetric topology for phosphatidylserine but not for phosphatidylethanolamine (978) 241
Middelkoop, E., Van der Hoek, E.E., Bevers, E.M., Comfurius, P., Slotboom, A.J., Op den Kamp, J.A.F., Lubin, B.H., Zwaal, R.F.A. and Roelofsen, B.
Involvement of ATP-dependent aminophospholipid translocation in maintaining phospholipid asymmetry in diamide-treated human erythrocytes (981) 151
Middleton, S.A., see Hsuanyu, Y. (995) 54
Midgley, P.J.W., see Rutter, G.A. (1014) 263
Miele, L., see Pulcini, D. (995) 64
Miercke, L.J.W., see Ross, P.E. (991) 134
Miethe, P., see Hentschel, M. (980) 169
Miettinen, T.A., see Strandberg, T.E. (1001) 150
Mietto, L., Boarato, E., Toffano, G. and Bruni, A.
Internalization of phosphatidylserine by adherent and non-adherent rat mononuclear cells (1013) 1
Miggiano, G.A.D., see Meucci, E. (999) 58
Miguel, E., see Casals, C. (1003) 201
Mihara, H., see Lee, S. (984) 174
Mikami, B., see Takegawa, K. (990) 98
Mikhailov, I., see Avramova, Z. (1007) 109
Miki, S., see Takegawa, K. (991) 431
Miles, P.R., see Ma, J.Y.C. (1003) 136
Milgrom, Y.M. and Murataliev, M.B.
Interaction of nucleotide-depleted F_1-ATPase with ADP. Characterization of a high-affinity binding site responsible for ADP-induced inhibition (975) 50
Milhaud, J., Mazerski, J. and Bolard, J.
Competition between cholesterol and phospholipids for binding to filipin (987) 193
Milhaud, P.G., Machy, P., Lebleu, B. and Leserman, L.
Antibody targeted liposomes containing poly(rI) · poly(rC) exert a

specific antiviral and toxic effect on cells primed with interferons α/β or γ (987) 15
Miller, B.C., see Matsunaga, A. (992) 265
Miller, E., see Khoo, J.C. (1012) 215
Miller, K.W., see Forman, S.A. (987) 95
Miller, N.E., see Nanjee, M.N. (1002) 245
Millman, B.M., see Huschilt, J.C. (979) 139
Mills, J.S., see Jurkowitz-Alexander, M. (1002) 203
Mills, J.W., see Kleinzeller, A. (1014) 40
Milner, S.W., see Hayes, J.D. (994) 21
Mimeault, M., see Carpentier, R. (975) 370
Mimura, A., see Yoshinari, K. (1010) 28
Mimura, K., see Hayashi, Y. (983) 217
Mimuro, M., Yamazaki, I., Tamai, N. and Katoh, T.
Excitation energy transfer in phycobilisomes at −196 °C isolated from the cyanobacterium *Anabaena variabilis* (M-3): evidence for the plural transfer pathways to the terminal emitters (973) 153
Mimuro, M., see Katoh, T. (976) 233
Mimuro, M., see Shimada, K. (975) 72
Minakami, S., see Kitazono, T. (1013) 152
Minakami, S., see Kuroki, M. (1012) 103
Minamino, N., see Kawano, J.-i. (997) 199
Mineo, E., see Pessina, A. (1013) 206
Minkov, I.B. and Strotmann, H.
The effect of azide on regulation of the chloroplast H^+-ATPase by ADP and phosphate (973) 7
Minnich, A. and Zilversmit, D.B.
Impaired triacylglycerol catabolism in hypertriglyceridemia of the diabetic, cholesterol-fed rabbit: a possible mechanism for protection from atherosclerosis (1002) 324
Minocha, R., see Gumbhir, K. (981) 77
Minten, J., see Missiaen, L. (990) 40
Miotto, G., see Di Lisa, F. (973) 185
Mir, M.A., see Morgan, K. (979) 53
Mischak, H., Hofer, F., Messner, R., Weissinger, E., Hayn, M., Tomme, P., Esterbauer, H., Küchler, E., Claeyssens, M. and Kubicek, C.P.
Monoclonal antibodies against different domains of cellobiohydrolase I and II from *Trichoderma reesei* (990) 1
Mischak, H., see Hofer, F. (992) 298
Misharin, A.Y., see Fuki, I.V. (1001) 235
Mishima, K. and Morimoto, T.
Electric field-induced orientation of myelin figures of phosphatidylcholine (985) 351
Misiewicz, V.M., see Labotka, R.J. (981) 358
Mišík, V., see Ondriaš, K. (1003) 238
Misler, S., see Tabcharani, J.A. (982) 62
Misra, S., Zafarullah, M., Price-Haughey, J. and Gedamu, L.
Analysis of stress-induced gene expression in fish cell lines exposed to heavy metals and heat shock (1007) 325
Missiaen, L., Wuytack, F., Kanmura, Y., Van Belle, H., Wynants, J., Minten, J. and Casteels, R.
Measurement of microsomal ATPase activities: a comparison between the inorganic phosphate-release assay and the NADH-coupled enzyme assay (990) 40
Misuraca, G., see Palumbo, A. (990) 297
Mitchell, T.J., Walker, J.A., Saunders, F.K., Andrew, P.W. and Boulnois, G.J.
Expression of the pneumolysin gene in *Escherichia coli*: rapid purification and biological properties (1007) 67
Mitra, S., see Modi, S. (996) 214
Mitsui, M., see Uchida, K. (991) 377
Miura, H., see Kikuchi, H. (1009) 283
Miura, S., see Yokono, S. (982) 300
Miyajima, K., see Matsuzaki, K. (980) 371
Miyajima, K., see Matsuzaki, K. (981) 130
Miyamoto, Y., Tiruppathi, C., Ganapathy, V. and Leibach, F.H.
Involvement of thiol groups in the function of the dipeptide/proton cotransport system in rabbit renal brush-border membrane vesicles (978) 25
Miyao, M. and Murata, N.
The mode of binding of three extrinsic proteins of 33 kDa, 23 kDa and 18 kDa in the Photosystem II complex of spinach (977) 315
Miyaoka, T., see Enami, I. (973) 35
Miyata, T., see Kodaira, K.-I. (1008) 123
Miyazaki, A., Shina, T., Toyoshima, Y., Gounaris, K. and Barber, J.
Stoichiometry of cytochrome *b*-559 in Photosystem II (975) 142
Miyazawa, T., see Oarada, M. (1012) 156
Miyoshi, T., see Hayashi, M. (977) 62
Mizobuchi, A. and Yamamoto, Y.
Assembly of Photosystem II polypeptides and expression of oxygen evolution activity in the chloroplasts of *Euglena gracilis* Z during the dark-light transition (977) 26
Mizote, T. and Nakayama, H.
Purification and properties of hydroxymethylpyrimidine kinase from *Escherichia coli* (991) 109
Mizukami, T., see Sekine, S. (1009) 117
Mizuno, M., see Yashiro, K. (1005) 56
Mizuno, S., see Waga, S. (1007) 209
Mizuno, Y., see Yoshimura, S. (981) 69
Moan, J., see Rimington, C. (992) 241
Moav, B., see Englander, E. (1007) 277
Möbius, D., see Beitinger, H. (984) 293
Mochizuki, Y., see Enami, I. (973) 35
Moczar, E., see Redini, F. (991) 359
Moczar, M., see Larnier, C. (1014) 145
Modi, S., Behere, D.V. and Mitra, S.
Binding of aromatic donor molecules to lactoperoxidase: proton NMR and optical difference spectroscopic studies (996) 214
Modzejewski, J., see Ryals, P.E. (991) 438
Moen, T.C., see Bovenberg, R.A.L. (1008) 223
Moestrup, S.K., see Gliemann, J. (980) 326
Moghimi, S.M. and Patel, H.M.
Differential properties of organ-specific serum opsonins for liver and spleen macrophages (984) 379
Moghimi, S.M. and Patel, H.M.
Serum opsonins and phagocytosis of saturated and unsaturated phospholipid liposomes (984) 384
Mohamed, A.S., see Del Corso, A. (993) 116
Mohri, T., see Ohta, A. (984) 151
Mohri, T., see Ohyashiki, T. (981) 235
Moin, K., see Lah, T.T. (993) 63
Moir, A.J.G., see Raggi, A. (997) 135
Moir, D., see Carrier, D. (983) 100
Mok, A., see Veldhuizen, R.A.W. (1005) 157
Mol, M.J.T.M., Stalenhoef, A.F.H., Demacker, P.N.M. and Van 't Laar, A.
Low-density lipoprotein catabolism in WHHL rabbits after partial ileal bypass surgery (1003) 167
Molle, G., see Duclohier, H. (987) 133
Mollenhauer, J., see Stochaj, U. (992) 385
Mollerup, S., see Røigaard-Petersen, H. (984) 231
Molnár, M., see Mechler, F. (1012) 227
Monaco, P., see Della Greca, M. (1004) 271
Monell, C.R., see Karukstis, K.K. (973) 124
Monin, B., see Guéant, J.L. (992) 281
Monk, B.C., Montesinos, C., Leonard, K. and Serrano, R.
Sidedness of yeast plasma membrane vesicles and mechanisms of activation of the ATPase by detergents (981) 226
Monod, J., see Hogness, D.S. (1000) 109
Monroe, J.G. and Haldar, S.
Involvement of a specific guanine nucleotide binding protein in receptor immunoglobulin stimulated inositol phospholipid hydrolysis (1013) 273

Montague, W., see Shaw, K. (1013) 42
Montero, M.C. and Ilundáin, A.
Effects of anisosmotic buffers on K^+ transport in isolated chicken enterocytes (979) 269
Montesinos, C., see Monk, B.C. (981) 226
Monti, J.-P., Gallice, P., Murisasco, A. and Crevat, A.
Phosphorus-31 and water proton relaxation in living erythrocytes. Application to uremia (1010) 210
Montine, K.S. and Henshaw, E.C.
Serum growth factors cause rapid stimulation of protein synthesis and dephosphorylation of eIF-2 in serum deprived Ehrlich cells (1014) 282
Moody, A.J. and Rich, P.R.
The functional catalytic unit involved in proton pumping by rat liver cytochrome-*c* reductase and by cytochrome-*c* oxidase (973) 29
Moran, A., Burguillo, F.J., López, M.C. and Domínguez, A.
Kinetic properties of derepressible acid phosphatase from the yeast form of *Yarrowia lipolytica* (990) 288
Moran, A.P., see Kuusela, P. (993) 297
Morandi, S., see Burlini, N. (1014) 153
Morash, S.C., Cook, H.W. and Spence, M.W.
Lysophosphatidylcholine as an intermediate in phosphatidylcholine metabolism and glycerophosphocholine synthesis in cultured cells: an evaluation of the roles of 1-acyl- and 2-acyllysophosphatidylcholine (1004) 221
Morash, S.C., see George, T.P. (1004) 283
Moravec, J., see El Alaoui-Talibi, Z. (1003) 109
Mordente, A., see Meucci, E. (999) 58
Moreau, H., see Gargouri, Y. (1006) 137
Moreau, H., see Gargouri, Y. (1006) 255
Moreau, P., see Bertho, P. (978) 91
Moreno-Dalmau, J., see Merino, M. (986) 1
Moreno-Vivián, C., Caballero, F.J., Cárdenas, J. and Castillo, F.
Effect of the C/N balance on the regulation of nitrogen fixation in *Rhodobacter capsulatus* E1F1 (977) 297
Morgan, D.M.L., Pearson, J.D. and Gordon, J.L.
Lysosomal hydrolases of human vascular cells: response to agonists of endothelial function (1010) 184
Morgan, E.H.
Calcium chelators induce association with the detergent-insoluble cytoskeleton and functional inactivation of the transferrin receptor in reticulocytes (981) 121
Morgan, K., Spurlock, G., Collins, P.A. and Mir, M.A.
Interaction of inhibitin with the human erythrocyte $Na^+(Li^+)_i/Na^+_o$ exchanger (979) 53
Mori, H., Morikawa, S., Taniguchi, S., Fujii, K., Fujiwara, M., Fujiwara, M. and Hosaka, K.
Interrelationship between Ca^{2+}-dependent phospholipid base-exchange reaction and phospholipase D-like activity in bovine retina (1003) 98
Mori, S., see Yamamoto, I. (993) 191
Mori, Y., see Honda, A. (1014) 305
Mori, Y., see Ojima, Y. (1011) 61
Morikawa, S., see Mori, H. (1003) 98
Morikawa, T., see Katsu, T. (983) 135
Morimoto, M., see Yamakawa, M. (1009) 156
Morimoto, S., see Nishii, M. (990) 138
Morimoto, T., see Mishima, K. (985) 351
Morin, R.J. and Peng, S.-K.
Relative specificities of inhibition of acid cholesteryl ester hydrolase and neutral cholesteryl ester hydrolase in cultured rabbit aortic smooth muscle cells by esterastin and cholesteryl oleyl ether (1004) 139
Morino, Y., see Sugi, K. (987) 217
Morino, Y., see Sugi, K. (991) 405
Morino, Y., see Takata, K. (984) 273
Morino, Y., see Takata, K. (986) 18
Morisawa, S., see Matsui-Yuasa, I. (1014) 225
Morita, I., see Suzuki, Y. (1012) 135
Morita, K., Nakanishi, A. and Oka, M.
In vitro activation of bovine adrenal tyrosine hydroxylase by rabbit skeletal muscle actin: evidence for a possible role of cytoskeletal elements as an activator for cytoplasmic enzymes (993) 21
Morita, R., see Ohki, R. (1009) 94
Morita, Y., see Takegawa, K. (990) 98
Moritani, C., see Sakai, Y. (973) 450
Moriya, A., see Yamauchi, K. (1003) 151
Moriyama, Y. and Nelson, N.
Lysosomal H^+-translocating ATPase has a similar subunit structure to chromaffin granule H^+-ATPase complex (980) 241
Moriyama, Y., see Tamiya, N. (995) 28
Morjana, N.A. and Scarborough, G.A.
Evidence for an essential histidine residue in the *Neurospora crassa* plasma membrane H^+-ATPase (985) 19
Morozkin, A.D., see Victorov, A.V. (984) 119
Morrison, J., see Fidge, N. (1003) 84
Morrone, S., see Cifone, M.G. (1011) 25
Morrow, Jr., K.J., see Hirasawa, M. (977) 150
Morrow, Jr., K.J., see Hirasawa, M. (994) 229
MORROW, W.J.W.
AIDS: The anatomy of an epidemic (989) 225
Morrow, W.J.W., see Kieber-Emmons, T. (989) 281
Morse II, P.D., see Hu, H. (1014) 211
Mortimer, B.C., Simmonds, W.J., Joll, C.A., Stick, R.V. and Redgrave, T.G.
The effect of added monoacylglycerols on the removal from plasma of chylomicron-like emulsions injected intravenously in rats (1002) 359
Morton, H., see Patrignani, P. (992) 71
Moser, H.W., see Al, B.J.M. (1004) 245
Moser, M., see Ruedl, C. (991) 280
Moses, L.C., see Roth, K.S. (987) 38
Moshier, J.A., see Majumdar, A.P.N. (992) 35
Mossa, G., Di Giulio, A., Dini, L. and Finazzi-Agrò, A.
Interaction of dipalmitoylphosphatidylcholine/cholesterol vesicles with ascorbate oxidase (986) 310
Motchnik, P.A. and Tappel, A.L.
Rat plasma selenoprotein P properties and purification (993) 27
Motojima, K. and Goto, S.
Cloning of rabbit uricase cDNA reveals a conserved carboxy-terminal tripeptide in three species (1008) 116
Moura, J.J.G., see Gadsby, P.M.A. (994) 37
Mourão, P.A.S., see Harab, R.C. (992) 237
Mouritsen, O.G., see Cruzeiro-Hansson, L. (979) 166
Mourtada, A., see Malaisse, W.J. (1013) 133
Moutin, M.-J., Abramson, J.J., Salama, G. and Dupont, Y.
Rapid Ag^+-induced release of Ca^{2+} from sarcoplasmic reticulum vesicles of skeletal muscle: a rapid filtration study (984) 289
Mow, V.C., Zhu, W., Lai, W.M., Hardingham, T.E., Hughes, C. and Muir, H.
The influence of link protein stabilization on the viscometric properties of proteoglycan aggregate solutions (992) 201
Mozhayeva, G.N., Naumov, A.P. and Kuryshev, Y.A.
Epidermal growth factor activates calcium-permeable channels in A 431 cells (1011) 171
Mrak, R.E. and North, P.E.
Triphasic effects of short chain *n*-alcohols on synaptic membrane transport of choline and of γ-aminobutyric acid (984) 97
Mrázek, J., see Kypr, J. (1009) 280
Muhn, P., see Saffrich, R. (997) 144
Muir, H., see Mow, V.C. (992) 201
Mukai, K., Nishimura, M., Ishizu, K. and Kitamura, Y.
Kinetic study of the reaction of vitamin C with vitamin E radicals (tocopheroxyls) in solution (991) 276
Mukai, K., Nishimura, M., Nagano, A., Tanaka, K. and Niki, E.

Kinetic study of the reaction of vitamin C derivatives with tocopheroxyl (vitamin E radical) and substituted phenoxyl radicals in solution (993) 168
Mukai, T., see Arai, Y. (1007) 91
Mukai, T., see Sakakibara, M. (1007) 334
Mukherjea, M., see Das, T. (1002) 164
Mulkidjanian, A.Y., see Drachev, L.A. (973) 189
Muller, C.D. and Schuber, F.
Neo-mannosylated liposomes: Synthesis and interaction with mouse Kupffer cells and resident peritoneal macrophages (986) 97
Müller-Fahrnow, A., Hilgenfeld, R., Pflügl, G. and Saenger, W.
Crystal structure of a small amphiphilic compound: heptane-1,2,3-triol (978) 176
Müller-Fahrnow, A., see Egner, U. (992) 404
Müller, T., see Fuhr, G. (980) 1
Müller, W.E.G., Wenger, R., Reuter, P., Renneisen, K. and Schröder, H.C.
Association of Tat protein and viral mRNA with nuclear matrix from HIV-1-infected H9 cells (1008) 208
Mullner, N., see Keresztes, T. (984) 326
Müllner, S., see Ziegler, K. (980) 161
Municio, A.M., see Casals, C. (1003) 201
Munkonge, F., East, J.M. and Lee, A.G.
Positions of the sites labeled by *N*-cyclohexyl- *N'*-(4-dimethyl-amino-1-naphthyl)carbodiimide on the $(Ca^{2+} + Mg^{2+})$-ATPase (979) 113
Munns, D.N., see Akeson, M.A. (984) 200
Munns, D.N., see Akeson, M.A. (986) 33
Muñoz, M.D., see Ramírez, M. (990) 206
Muñoz, M.D., see Ridruejo, J.C. (993) 179
Munson, S., see Bikle, D. (1010) 122
Mur, L.R., see Van der Staay, G.W.M. (975) 317
Mura, U., see Del Corso, A. (993) 116
Murad, F., see Hirata, M. (1010) 346
Murad, F., see Waldman, S.A. (999) 157
Murakami, M., Kudo, I. and Inoue, K.
In vivo release and clearance of rat platelet phospholipase A_2 (1005) 270
Murakami, M., see Ohmori, D. (996) 166
Murakami-Murofushi, K. and Ohta, J.
Expression of UDP-glucose: poriferasterol glucosyltransferase in the process of differentiation of a true slime mold, *Physarum polycephalum* (992) 412
Murakami-Murofushi, K., see Shioda, M. (1007) 254
Muramatu, M., see Kozaki, Y. (1014) 120
Muraoka, S., see Fujii, N. (999) 239
Murat, J.-C., see Gauthier, T. (975) 231
Murata, M., see Imaizumi, K. (1005) 253
Murata, N., see Eaton-Rye, J.J. (977) 219
Murata, N., see Miyao, M. (977) 315
Murataliev, M.B., see Milgrom, Y.M. (975) 50
Murayama, J.-I., Utsumi, H. and Hamada, A.
Amino acid sequence of monkey erythrocyte glycophorin MK. Its amino acid sequence has a striking homology with that of human glycophorin A (999) 273
Murayama, T., see Inouhe, M. (993) 51
Murer, H., see Quamme, G. (1013) 159
Murer, H., see Quamme, G. (1013) 166
Murer, H., see Wuarin, F. (981) 185
Murisasco, A., see Monti, J.-P. (1010) 210
Murota, S.-i., see Suzuki, Y. (1012) 135
Murphy, D.J., see Au, D.M.Y. (1005) 97
Murphy, D.J., see Li, G. (987) 187
Murphy, E.J., see Jurkowitz-Alexander, M. (1002) 203
Murphy, M.E., see Scholich, H. (1001) 256
Murphy, M.P.
Slip and leak in mitochondrial oxidative phosphorylation (977) 123
Murphy, V.A. and Johanson, C.E.
Alteration of sodium transport by the choroid plexus with amiloride (979) 187
Murray, D., see Cantoni, O. (1014) 1
Murthy, S.K., see Ganju, R.K. (993) 266
Musanti, R., see Ghiselli, G. (1006) 26
Muscatello, U., see Botti, B. (992) 327
Muscatello, U., see Masini, A. (1014) 133
Myers, C.E., see Sinha, B.K. (1010) 304
Myers, J.L. and Shaw, R.W.
Production, purification and spectral properties of metal-dependent β-lactamases of *Bacillus cereus* (995) 264

N

Nabedryk, E., see Breton, J. (973) 13
Nachshen, D.A. and Kongsamut, S.
'Slow' K^+-stimulated Ca^{2+} influx is mediated by Na^+–Ca^{2+} exchange: a pharmacological study (979) 305
Naderi, S., Carruthers, A. and Melchior, D.L.
Modulation of red blood cell sugar transport by lyso-lipid (985) 173
Nadler, L.M., see Pedrazzini, A. (989) 11
Nagabhushan, T.L., see Ramanathan, L. (1007) 283
Nagai, F., see Satoh, K. (994) 104
Nagai, M., see Chijiiwa, K. (1001) 111
Nagamatsu, A., see Soeda, S. (999) 29
Nagano, A., see Mukai, K. (993) 168
Nagao, S., see Tohmatsu, T. (1013) 190
Nagaraj, R., see Saberwal, G. (984) 360
Nagasaki, H., see Yamada, R.-h. (990) 325
Nagasawa, Y., see Takasu, N. (1012) 117
Nagase, H., see Ojima, Y. (1011) 61
Nagata, K., see Sakiyama, H. (990) 156
Nagata, Y., see Yamada, R.-h. (990) 325
Nagel, W., see Krauter, B. (1013) 212
Nagradova, N.K., see Asryants, R.A. (997) 159
Nagy, K., see Meves, H. (988) 99
Naito, H., see Kato, S. (991) 36
Naito, M., Utsumi, H., Umeda, M., Kudo, I., Takeshita, K., Hamada, A., Nojima, S. and Inoue, K.
ESR study on synthetic glyceroglycolipid liposomal membranes (985) 147
Najafi, H., see Geschwind, J.-F. (1012) 107
Najdovski, T., see Pauwels, S. (996) 82
Nakagawa, A., see Satoh, K. (994) 104
Nakajima, H., see Sakai, T. (993) 128
Nakamaye, K., see Omoto, C.K. (999) 221
Nakamura, E., see Sakata, T. (1007) 124
Nakamura, M., see Nishii, M. (990) 138
Nakamura, Y., see Kaminogawa, S. (998) 50
Nakanishi, A., see Morita, K. (993) 21
Nakanishi, Y., Isohashi, F., Ebisuno, S. and Sakamoto, Y.
Sulfhydryl groups of an extramitochondrial acetyl-CoA hydrolase from rat liver (996) 209
Nakanishi, Y., see Kobayashi, A. (1009) 244
Nakanishi, Y., see Shibata, H. (1007) 184
Nakano, K., see Kodaira, K.-I. (1007) 359
Nakano, K., see Kodaira, K.-I. (1008) 123
Nakao, K., see Sato, T. (992) 168
Nakao, M., see Satoh, K. (994) 104
Nakao, T., see Satoh, K. (994) 104

Nakashima, K., see Maekawa, S. (993) 199
Nakashima, K., see Tanaka, M. (1008) 193
Nakashima, K., see Yamakawa, M. (1009) 156
Nakashima, S., see Tohmatsu, T. (1012) 97
Nakashima, S., see Tohmatsu, T. (1013) 190
Nakayama, H., see Mizote, T. (991) 109
Nakayama, H., see Shimokawa, O. (1003) 15
Nakazato, Y., Suzuki, H. and Saruta, T.
Characterization of subclones of Madin-Darby canine kidney renal epithelial cell line (1014) 57
Nakielny, S.F., see Price, N.T. (1008) 177
Nalini, S., see Balasubramanian, K.A. (1003) 232
Nam, S.S., see Park, D.-G. (973) 19
Nametkin, S.N., see Kabanov, A.V. (996) 147
Nanjee, M.N. and Miller, N.E.
Human hepatic low-density lipoprotein receptors: associations of receptor activities in vitro with plasma lipid and apolipoprotein concentrations in vivo (1002) 245
Napolitano, A., see D'Ischia, M. (993) 143
Napolitano, L.A., Vogel, J. and Jay, G.
The role of major histocompatibility complex class I antigens in tumorigenesis: future applications in cancer therapy (989) 153
Narasimhan, C., see Fung, L.W.-M. (982) 167
Narce, M., see Hagve, T.-A. (1004) 143
Narce, M., see Skrede, S. (1005) 296
Nardini, M., see Ricci, G. (990) 211
Nascimento, A.L.T.O. and Cilento, G.
Schiff base formation with amino acids enhances light emission and damage induced in neutrophils by phenylacetaldehyde (991) 50
Nasr-Esfahani, M.H., see Leake, D.S. (1005) 196
Nässberger, L., Bergstrand, A. and DePierre, J.W.
Isolation of myelin bodies from the kidney cortex of gentamicin-treated rats (984) 365
Nastruzzi, C., Walde, P., Menegatti, E. and Gambari, R.
Differential effects of liposome-entrapped desferrioxamine on proliferation and erythroid differentiation of murine erythroleukemic Friend cells (1013) 36
Nasu, N., see Setoguchi, M. (1008) 213
Nato, F., see Saunier, B. (1011) 110
Natori, S., see Kim, J.W. (1008) 79
Natori, S., see Kobayashi, A. (1009) 244
Naumov, A.P., see Mozhayeva, G.N. (1011) 171
Navarro, N., see Guettet, C. (1005) 233
Nayar, R., Hope, M.J. and Cullis, P.R.
Generation of large unilamellar vesicles from long-chain saturated phosphatidylcholines by extrusion technique (986) 200
Neal, J.L., see Tenenhouse, H.S. (984) 207
Nedergaard, J., see Alexson, S.E.H. (1005) 13
Neely, S., see Francis, Jr, R.B. (1012) 207
Negishi, M., see Sugama, K. (1011) 75
Nègre, A., Salvayre, R., Dagan, A. and Gatt, S.
Pyrenemethyl laurate, a new fluorescent substrate for continuous kinetic determination of lipase activity (1006) 84
Negre, A., see Radom, J. (1005) 130
Neilan, J., see Keaveney, M. (1007) 289
Nelson, D.L., see Mason, P.A. (1010) 108
Nelson, D.L., see Mason, P.A. (1010) 116
Nelson, N., see Moriyama, Y. (980) 241
Neri, M.G., see Pessina, A. (1013) 206
Nethery, A. and O'Grady, R.L.
Identification, partial purification and characterization of high-molecular-weight gelatin-degrading metalloproteinases produced by a rat mammary carcinoma cell line (993) 42
Nethery, A. and O'Grady, R.L.
Identification of a metalloproteinase co-purifying with rat tumour collagenase and the characteristics of fragments of both enzymes (994) 149
Neubauer, H.-P., see Kuehn, L. (991) 263
Neuhaus, C., see Enderle-Schmitt, U. (987) 21
Neuhaus, E., see Quick, P. (973) 263
Neumann, E., see Schürholz, T. (986) 225
Neumcke, B., see Weik, R. (983) 127
Neupert, W., see Hartl, F.-U. (988) 1
Neuteboom, B., Jekel, P.A., Hofstra, R.M.W. and Beintema, J.J.
Sulfhydryl groups and disulfide bridges in subunit *c* of *Panulirus interruptus* hemocyanin (998) 126
Nevinsky, G.A., see Bukhrashvili, I.S. (1008) 102
Newby, V.K., see Plumb, G.W. (999) 281
Nexø, E., see Hansen, M. (992) 209
Neya, S., Funasaki, N. and Imai, K.
Etiohemin as a prosthetic group of myoglobin (996) 226
Ng, C.F., Lam, B.K., Pritchard, Jr., K.A., Stemerman, M.B., Hejny, P. and Wong, P.Y.-K.
Agonist-dependent generation of lipoxins from rat basophilic leukemia cell (RBL-1) (1004) 332
Ng, K.-y. and Heath, T.D.
Liposome-dependent delivery of pteridine antifolates: a two-compartment growth inhibition assay for evaluating drug leakage and metabolism (981) 261
Ng, M.L., see Tang, B.L. (1014) 162
Nichols, A.V., Blanche, P.J., Shore, V.G. and Gong, E.L.
Conversion of apolipoprotein-specific high-density lipoprotein populations during incubation of human plasma (1001) 325
Nichols, A.V., see Gong, E.L. (1006) 317
Nicholson, D.W., see Hartl, F.-U. (988) 1
Nickel, B.E. and Davie, J.R.
The protamine gene chromatin in developing trout testis exists in an altered state (1007) 23
Nicolaou, K.C., Marron, B.E., Veale, C.A., Webber, S.E., Dahlén, S.E., Samuelsson, B. and Serhan, C.N.
Identification of a novel 7-*cis*-11-*trans*-lipoxin A_4 generated by human neutrophils: total synthesis, spasmogenic activities and comparison with other geometric isomers of lipoxins A_4 and B_4 (1003) 44
Nicolas, J.P., see Guéant, J.L. (992) 281
Nicolau, C., see Arvinte, T. (981) 51
Nicolau, C., see Arvinte, T. (981) 61
Nicolaus, B., see Lanzotti, V. (1001) 31
Nicolaus, B., see Lanzotti, V. (1002) 398
Nicolaus, B., see Lanzotti, V. (1004) 44
Nicolin, A., see Lombardi, P. (1003) 301
Nielen, R.J., see Meulendijks, G.H.W.M. (979) 321
Nielsen, H.C.
Epidermal growth factor influences the developmental clock regulating maturation of the fetal lung fibroblast (1012) 201
Nielsen, H.C., see Snyder, J.M. (1002) 1
Nielsen, S., see Ogawa, H. (1003) 131
Niewiarowski, S., Norton, K.J., Eckardt, A., Lukasiewicz, H., Holt, J.C. and Kornecki, E.
Structural and functional characterization of major platelet membrane components derived by limited proteolysis of glycoprotein IIIa (983) 91
Nijs, B., see Biermans, W. (974) 74
Niki, E., see Mukai, K. (993) 168
Nikiforovich, G.V., see Vesterman, B. (998) 204
Nikkari, T., see Jaakkola, O. (1005) 118
Nikolsky, N., see Sorkin, A. (1011) 88
Nilius, B., Tytgat, J. and Albitz, R.
Modulation of cardiac Na channels by angiotensin II (1014) 259
Nilsson, A., Thomson, K.S. and Adler, L.
Purification and characterization of glycerol kinase in the salt-tolerant yeast *Debaryomyces hansenii* (991) 296
Nilsson, Å., see Chen, Q. (1004) 372
Nilsson, P., see Brändén, R. (995) 75
Nishida, A., see Tohmatsu, T. (1013) 190

Nishida, H., see Makimoto, S. (996) 233
Nishii, M., Takaoka, M., Nakamura, M., Takenobu, Y. and Morimoto, S.
Purification and partial characterization of a thiol proteinase activating prokallikrein from the rat kidney cortex (990) 138
Nishijima, M., see Kuge, O. (986) 61
Nishikawa, M., see Yamaguchi, T. (1010) 177
Nishimura, C., Suzuki, H., Tanaka, N. and Yamaguchi, H.
Intracellular degradation of bleomycin hydrolase in two Chinese hamster cell lines in relation to their peplomycin susceptibility (1012) 29
Nishimura, J., see Urashima, T. (992) 375
Nishimura, M., see Mukai, K. (991) 276
Nishimura, M., see Mukai, K. (993) 168
Nishimura, T., see Fukazawa, H. (991) 272
Nishino, Y., see Sakiyama, H. (990) 156
Nissani, E. and Ginsburg, H.
Protonophoric effects of antimalarial drugs and alkylamines in *Escherichia coli* membranes (978) 293
Nitsch, C., Schatz, G.H. and Braslavsky, S.E.
Laser-induced optoacoustic calorimetry of primary processes in cells of *Rhodospirillum rubrum* (975) 88
Nitschke, W., Hauska, G. and Rutherford, A.W.
The inhibition of quinol oxidation by stigmatellin is similar in cytochrome bc_1 and b_6f complexes (974) 223
Nitschke, W., see Van Mieghem, F.J.E. (977) 207
Nivez, M.-P., see Ardaillou, N. (991) 445
Nixon, J.S., see Williamson, M.P. (997) 9
Nobes, C.D. and Brand, M.D.
A quantitative assessment of the use of $^{36}Cl^-$ distribution to measure plasma membrane potential in isolated hepatocytes (987) 115
Nobes, C.D., Lakin-Thomas, P.L. and Brand, M.D.
The contribution of ATP turnover by the Na^+/K^+-ATPase to the rate of respiration of hepatocytes. Effects of thyroid status and fatty acids (976) 241
Noguchi, T., see Kato, S. (991) 36
Noguchi, T., see Katsurada, A. (1004) 103
Noguchi, T., see Katsurada, A. (1006) 104
Nogueira, M., see Garcia, G. (990) 59
Nojima, S., see Naito, M. (985) 147
Nokubo, M., Ohta, M., Kitani, K. and Zs.-Nagy, I.
Identification of protein-bound riboflavin in rat hepatocyte plasma membrane as a source of autofluorescence (981) 303
Nollert, M.U., Hall, E.R., Eskin, S.G. and McIntire, L.V.
The effect of shear stress on the uptake and metabolism of arachidonic acid by human endothelial cells (1005) 72
Nomura, H., see Chihara, M. (1012) 5
Nomura, T. and Kurihara, K.
Similarity of ion dependence of odorant responses between lipid bilayer and olfactory system (1005) 260
Nomura, T., see Chihara, M. (1012) 5
Nomura, Y., see Chihara, M. (1012) 5
Noordam, C., see Groen, A.K. (1006) 179
Noordmans, J., see Van der Mei, H.C. (991) 395
Norata, G., see Lombardi, P. (1003) 301
Norbury, C.J. and Nurse, P.
Control of the higher eukaryote cell cycle by $p34^{cdc2}$ homologues (989) 85
Nørby, J.G., see Jensen, J. (985) 248
Nordlund, S., see Ljungström, E. (994) 210
Nordlund, S., see Soliman, A. (994) 138
Norris, U., see Fimmel, A.L. (986) 257
North, P.E., see Mrak, R.E. (984) 97
Norton, K.J., see Niewiarowski, S. (983) 91
Nothnagel, E.A.
Synthesis and characterization of fluorescent Lucifer yellow-lipid conjugates (980) 209
Novak, J.F., see Beidler, D.R. (1014) 101
Nowak, E., Borovikov, Y.S. and Dąbrowska, R.
Caldesmon weakens the bonding between myosin heads and actin in ghost fibers (999) 289
Nowak, R., Siedlecki, J.A., Kaczmarek, L., Zmudzka, B.Z. and Wilson, S.H.
Levels and size complexity of DNA polymerase β mRNA in rat regenerating liver and other organs (1008) 203
Noy, N., Donnelly, T.M., Cooper, R.B. and Zakim, D.
The physical-chemical basis for sex-related differences in uptake of fatty acids by the liver (1003) 125
Nozawa, T., see Ohta, M. (1011) 33
Nozawa, Y., see Tohmatsu, T. (1012) 97
Nozawa, Y., see Tohmatsu, T. (1013) 190
Nugent, J.H.A., see Hubbard, J.A.M. (977) 91
Nugent, T., see Fidge, N. (1003) 84
Nunez, E.A., see Savu, L. (992) 379
Nunez, E.A., see Vallette, G. (997) 302
Nurse, P., see Norbury, C.J. (989) 85
Nussbaum, M.S., see Balasubramaniam, A. (997) 176
Nussinov, R., Sarai, A., Smythers, G.W. and Jernigan, R.L.
Distinct patterns in homooligomer tract sequence context in prokaryotic and eukaryotic DNA (1008) 329
Nuttall, F.Q., see Gilboe, D.P. (991) 340
Nutting, D., Hall, J., Barrowman, J.A. and Tso, P.
Further studies on the mechanism of inhibition of intestinal chylomicron transport by Pluronic L-81 (1004) 357
Nykjær, A., see Jensen, P.H. (986) 135
Nyquist, D.A. and Helmkamp, Jr., G.M.
Developmental patterns in rat brain of phosphatidylinositol synthetic enzymes and phosphatidylinositol transfer protein (987) 165
Nyssen, E., Di Giambattista, M. and Cocito, C.
Analysis of the reversible binding of virginiamycin M to ribosome and particle functions after removal of the antibiotic (1009) 39

O

O, K., see Choy, P.C. (1005) 225
Oarada, M., Majima, T., Miyazawa, T., Fujimoto, K. and Kaneda, T.
The effect of dietary autoxidized oils on immunocompetent cells in mice (1012) 156
Oasba, P.K., see Oka, K. (1008) 351
Öblad, M., Selin, E., Malmström, B., Strid, L., Aasa, R. and Malmström, B.G.
Analytical characterization of cytochrome oxidase preparations with regard to metal and phospholipid contents, peptide composition and catalytic activity (975) 267
O'Brian, M.R. and Maier, R.J.
Molecular aspects of the energetics of nitrogen fixation in *Rhizobium*-legume symbioses (974) 229
O'Brien, J.A., see Snyder, J.M. (1002) 1
Ochiai, H., see Beppu, M. (979) 35
Ochoa, S.
Enzymes of fatty acid metabolism: a commentary by (1000) 279
Ochoa, S., see Grunberg-Manago, M. (1000) 59
Ochoa, S., see Lynen, F. (1000) 279
Ochs, R.S., see Conricode, K.M. (1003) 36
O'Connell, M.J., see Ward, R.J. (993) 131
Oda, T., see Kitagawa, T. (987) 235
Oda, Y., see Kitagawa, S. (1011) 52
Odenwald, W.F., see Kaiserman, H.B. (1008) 23
Oesterhelt, D., see Gabellini, N. (974) 202

Oette, K., see Stein, O. (1003) 175
Oette, K., see Stein, O. (1006) 144
Ogata, T., see Kawashima, Y. (1006) 214
Ogawa, H., Konishi, K. and Fujioka, M.
The peptide sequences near the bound pyridoxal phosphateare conserved in serine dehydratase from rat liver,and threonine dehydratases from yeast and *Escherichia coli* (996) 139
Ogawa, H., Nielsen, S. and Kawakami, M.
Cachectin/tumor necrosis factor and interleukin-1 show different modes of combined effect on lipoprotein lipase activity and intracellular lipolysis in 3T3-L1 cells (1003) 131
Ogawa, T., see Tsuji, H. (991) 380
Ogin, C. and Grassl, S.M.
Dicarboxylate transport in human placental brush-border membrane vesicles (980) 248
Ogino, T., Kawabata, T. and Awai, M.
Stimulation of glutathione synthesis in iron-loaded mice (1006) 131
Ogino, T., see Kawabata, T. (1004) 89
Ogita, K., see Yoneda, Y. (1012) 74
Ogli, K., see Yokono, S. (982) 300
Ogoma, Y., Shimizu, T., Kobayashi, H., Fujii, T., Hachimori, A., Kondo, Y. and Hatano, M.
Effects of Ca^{2+} and Zn^{2+} on trifluoperazine–S100 proteins interactions: induced circular dichroism and fluorescence spectra (997) 188
O'Grady, R.L., see Nethery, A. (993) 42
O'Grady, R.L., see Nethery, A. (994) 149
Ogrodnik, A., see Bixon, M. (977) 273
Ogura, K., see Sagami, H. (1002) 218
Ogura, K., see Yoshida, I. (995) 138
Ohara, M., see Umesaki, Y. (1001) 157
Ohara, M., see Umesaki, Y. (1001) 163
Ohashi, M., see Ohuchi, K. (1013) 86
Ohgaki, T., see Yoneda, Y. (1012) 74
Ohi, H., see Ohta, K. (996) 142
Ohki, H., see Soeda, S. (999) 29
Ohki, H., see Takikawa, H. (1004) 147
Ohki, M., see Ohki, R. (1009) 94
Ohki, R., Morita, R., Kawamata, T., Uchida, H. and Ohki, M.
A complete deletion mutant of the *Escherichia coli dnaKdnaJ* operon (1009) 94
Ohmori, D., Hasumi, H., Yamakura, F., Murakami, M., Fujisawa, K., Taneoka, Y. and Yamamura, T.
Studies on the molecular structure of spinach ferredoxin. I. Comparison of two molecular species of ferredoxin (996) 166
Ohmori, D., see Hasumi, H. (996) 173
Ohnishi, S.T., Katagi, H. and Katagi, C.
Inhibition of the in vitro formation of dense cells and of irreversibly sickled cells by charybdotoxin, a specific inhibitor of calcium-activated potassium efflux (1010) 199
Ohnishi, T., see Meinhardt, S.W. (975) 175
Ohnishi, T., see Powers, L. (975) 293
Ohnishi, Y., see Sakikawa, T. (1007) 158
Ohno, K., see Tanaka-Yamamoto, T. (1009) 151
Ohsawa, M. and Kimura, H.
Formation of vitamin D-binding protein-actin and binary and ternary plasma gelsolin-actin complexes in human serum (992) 195
Ohshima, A., see Dou, D. (1009) 83
Ohta, A., Mohri, T. and Ohyashiki, T.
Effect of lipid peroxidation on membrane-bound Ca^{2+}-ATPase activity of the intestinal brush-border membranes (984) 151
Ohta, J., see Murakami-Murofushi, K. (992) 412
Ohta, J., see Shioda, M. (1007) 254
Ohta, K., Kitada, M., Hashizume, T., Komori, M., Ohi, H. and Kamataki, T.
Purification of cytochrome *P*-450 from polychlorinated biphenyl-treated crab-eating monkeys: high homology to a form of human cytochrome *P*-450 (996) 142
Ohta, M., Nozawa, T., Hatano, M., Hayashi, H., Tasumi, M. and Shimada, K.
^{31}P-NMR studies of photophosphorylation in chromatophores from *Chromatium vinosum* (1011) 33
Ohta, M., see Nokubo, M. (981) 303
Ohta, S., see Suzuki, T. (999) 254
Ohtaki, S., see Kawano, J.-i. (997) 199
Ohuchi, K., Takahashi, C., Hirasawa, N., Watanabe, M., Fujiki, H. and Tsurufuji, S.
Stimulation of histamine release and arachidonic acid metabolism in rat peritoneal mast cells by thapsigargin, a non-TPA-type tumor promoter (1003) 9
Ohuchi, K., Tamura, T., Ohashi, M., Watanabe, M., Hirasawa, N., Tsurufuji, S. and Fujiki, H.
Okadaic acid and dinophysistoxin-1, non-TPA-type tumor promoters, stimulate prostaglandin E_2 production in rat peritoneal macrophages (1013) 86
Ohyashiki, T., Yamamoto, T. and Mohri, T.
Changes in the fluorescence parameters of bound *N*-(1-pyrene)maleimide by lipid peroxidation of intestinal brush-border membranes (981) 235
Ohyashiki, T., see Ohta, A. (984) 151
Oinuma, T., see Kawano, J.-i. (997) 199
Oizumi, J. and Hayakawa, K.
Biotinidase and lipoamidase in guinea pig livers (991) 410
Ojima, Y., Ito, A., Nagase, H. and Mori, Y.
Calmodulin regulates the interleukin 1-induced procollagenase production in human uterine cervical fibroblasts (1011) 61
Öjteg, A.-C., see Arvidson, G. (984) 167
Öjteg, G., Lundahl, P. and Wolgast, M.
The net electric charge of proteins. A comparison of determinations by Donnan potential measurements and by gel electrophoresis (991) 317
Oka, K., Yuan, J.G., Senda, M., Masibay, A.S., Oasba, P.K., Masuno, H., Scow, R.O., Paterniti Jr., J.R. and Brown, W.V.
Expression of lipoprotein lipase gene in combined lipase deficiency (1008) 351
Oka, M., see Morita, K. (993) 21
Oka, S., see Akama, K. (1008) 198
Okabayashi, H., see Yoshida, T. (979) 287
Okabayashi, H., see Yoshida, T. (984) 253
Okabe, N., Mano, N. and Tahira, S.
Binding characteristics of a major thyroid hormone metabolite, 3,3′,5′-triiodo-L-thyronine, to bovine serum albumin as measured by fluorescence (990) 303
Okada, Y., see Ueda, S. (1012) 254
Okamoto, M., see Sakata, T. (1007) 124
Okamoto, M., see Sugano, S. (994) 235
Okamura, M.Y., see Lubitz, W. (977) 227
Okazeri, S., see Hayashi, H. (991) 310
Okudaira, N.-I., Sawada, Y., Sugiyama, Y., Iga, T. and Hanano, M.
Effect of procainamide on renal tubular transport of cimetidine in the isolated perfused rat kidney (981) 1
Okuyama, T., see Kocha, T. (991) 56
Oliveberg, M., Brzezinski, P. and Malmström, B.G.
The effect of pH and temperature on the reaction of fully reduced and mixed-valence cytochrome *c* oxidase with dioxygen (977) 322
Oliw, E.H. and Sprecher, H.
Metabolism of polyunsaturated fatty acids by an $(n-6)$-lipoxygenase associated with human ejaculates (1002) 283
Oliw, E.H.
Observations on the substrate specificity of prostaglandin hydroxylases of monkey seminal vesicles and sheep vesicular glands (1001) 107
Olomucki, M., see Roques, P. (1009) 99

Olsen, J.I., see Schweizer, M.P. (1008) 293
Olson, D.M. and Tanswell, A.K.
Production of prostaglandins by fetal rat lung type II pneumonocytes and fibroblasts (1003) 327
Olson, M.S., see Kester, M. (1014) 195
Olver, R.E., see Butcher, P.A. (980) 50
Omiecinski, C.J., see Wilson, N.M. (1008) 357
Omoto, C.K. and Nakamaye, K.
ATP analogs substituted on the 2-position as substrates for dynein ATPase activity (999) 221
Ondriaš, K., Mišík, V., Gergeľ, D. and Staško, A.
Lipid peroxidation of phosphatidylcholine liposomes depressed by the calcium channel blockers nifedipine and verapamil and by the antiarrhythmic-antihypoxic drug stobadine (1003) 238
Ondrias, M.R., see Hirasawa, M. (994) 229
Ong, K.K., see Lim, S.T. (991) 353
Onji, T., Takagi, M., Uodome, N., Shibata, N. and Aoki, K.
Tropomyosin-caldesmon/actomyosin systems in platelets and arterial smooth muscle: results from exchange experiments (999) 248
Ono, T., see Sakata, T. (1007) 124
Ono, T.-a. and Inoue, Y.
Removal of Ca by pH 3.0 treatment inhibits S_2 to S_3 transition in photosynthetic oxygen evolution system (973) 443
Ono, T.-a., see Inui, T. (973) 147
Onoyama, Y., see Matsui-Yuasa, I. (1014) 225
Opas, M., see Fliegel, L. (982) 1
Op den Kamp, J.A.F., see Middelkoop, E. (978) 241
Op den Kamp, J.A.F., see Middelkoop, E. (981) 151
O'Reilly, M.A., Weaver, T.E., Pilot-Matias, T.J., Sarin, V.K., Gazdar, A.F. and Whitsett, J.A.
In vitro translation, post-translational processing and secretion of pulmonary surfactant protein B precursors (1011) 140
Orishimo, M.W., see Swaney, J.B. (1002) 338
Orlov, Y.N., see Bresler, V.M. (982) 288
Orly, J., see Van Amerongen, A. (1001) 243
O'Rourke, A.M. and Rider, C.C.
Glucose, glutamine and ketone body utilisation by resting and concanavalin A activated rat splenic lymphocytes (1010) 342
Orselius, K., see Dahlgren, C. (1010) 41
Ortega, J.M., Hervás, M. and Losada, M.
Location of cytochrome *b*-559 between Photosystem II and Photosystem I in noncyclic electron transport (975) 244
Ortiz, P.J., see Grunberg-Manago, M. (1000) 59
Oshima, T., see Eguchi, H. (990) 133
Osman, A.M., see Del Corso, A. (993) 116
Ostapenko, I.A., see Bresler, V.M. (982) 288
Ostapiuk, I., see Adams, M.L. (1012) 243
Osterloh, K. and Aisen, P.
Pathways in the binding and uptake of ferritin by hepatocytes (1011) 40
Östlund Farrants, A.-K., Björkhem, I. and Pedersen, J.I.
Identification of 3α,7α,12α-trihydroxy-5β-cholest-24-enoic acid as an intermediate in the peroxisomal conversion of 3α,7α,12α-trihydroxy-5β-cholestanoic acid to cholic acid (1002) 198
Osuga, T., see Abei, M. (995) 279
Otani, S., see Matsui-Yuasa, I. (1014) 225
Otterness, I.G., see Daumy, G.O. (998) 32
Ottesen, M., see Anfinsen, C.B. (1000) 197
Ottolina, G., Riva, S., Carrea, G., Danieli, B. and Buckmann, A.F.
Enzymatic synthesis of [4*R*-^{2}H]NAD(P)H and [4*S*-^{2}H]NAD(P)H and determination of the stereospecificity of 7α- and 12α-hydroxysteroid dehydrogenase (998) 173
Ouhabi, R., see Rigoulet, M. (975) 325
Ouwerkerk, R., Van Echteld, C.J.A., Staal, G.E.J. and Rijksen, G.
Intracellular free magnesium and phosphorylated metabolites in hexokinase- and pyruvate kinase-deficient red cells measured using ^{31}P-NMR spectroscopy (1010) 294
Ouyang, C., see Teng, C.-M. (992) 258
Overduin, P., see De Cock, H. (985) 313
Owers Narhi, L. and Arakawa, T.
Sodium dodecyl sulfate polyacrylamide gel electrophoresis as a method for studying the stability of subtilisin (990) 144
Owicki, J.C., see Saxton, M.J. (979) 27
Ozaki, C.K., Chu, S.-h.W. and Walker, W.A.
Developmental changes in galactosyltransferase activity in the rat small intestine (991) 243
Ozaki, Y., Yatomi, Y., Kariya, T. and Kume, S.
Correlation of intracellular and extracellular calcium ion concentrations with synergy between 1,2-dioctanoyl-*sn*-glycerol and ionomycin in platelet arachidonic acid mobilization (1012) 87
Ozawa, T., see Tanaka-Yamamoto, T. (1009) 151
Ozawa, T., see Yagi, K. (1000) 203
Ozols, J.
Structure of cytochrome b_5 and its topology in the microsomal membrane (997) 121

P

Packard, C.J., see Series, J. (1003) 183
Padh, H., Lavasa, M. and Steck, T.L.
Characterization of a vacuolar proton ATPase in *Dictyostelium discoideum* (982) 271
Pagani, R., see Leoncini, R. (994) 52
Pagani, S., see Bonomi, F. (994) 180
Pain, R.H., see Dryden, D.T.F. (997) 313
Palacios-Araus, L., see Palés, J. (980) 33
Palatini, P., see Francesconi, M.A. (999) 163
Palazuk, B.J., see McCroskey, M.C. (1011) 212
Palés, J., Palacios-Araus, L., López, A. and Gual, A.
Influence of sodium conductances on platelet activation (980) 33
Páli, T. and Horváth, L.I.
Restricted lateral diffusion of acidic lipids in phospholipid vesicles aggregated by myelin basic protein (984) 128
Pali, T., see Horváth, I. (1002) 409
Pallot, D.J., see Shaw, K. (1013) 42
Pallotta, D., see Savard, L. (1007) 264
Palmer, D.N., see Hall, N.A. (993) 245
Palmer, F.B.S.C., see George, T.P. (1004) 283
Palmer, F.B.S.C., see Glanville, N.T. (1004) 169
Palmer, J.M., see Harvey, P.J. (994) 59
Palmer, S. and Wakelam, M.J.O.
Mass measurement of inositol phosphates (1014) 239
Palmieri, F., see Bisaccia, F. (977) 171
Palmieri, F., see De Pinto, V. (987) 1
Palmieri, F., see Indiveri, C. (977) 187
Palmieri, F., see Indiveri, C. (977) 194
Palmieri, F., see Krämer, R. (974) 1
Palombo, F. and Dogliotti, E.
Construction of an EBV-derived shuttle vector for studying the influence of transcription on mutagenesis (1009) 251
Paltauf, F., see Hermetter, A. (978) 151
Paltauf, F., see Szolderits, G. (986) 301
Palumbo, A., D'Ischia, M., Misuraca, G. and Prota, G.
A new look at the rearrangement of adrenochrome under biomimetic conditions (990) 297
Pan, F.-M., see Chao, S.-C. (1007) 233
Pande, A., see Pande, C. (973) 257
Pande, C., Callender, R., Baribeau, J., Boucher, F. and Pande, A.

Effect of lipid–protein interaction on the color of bacteriorhodopsin (973) 257
Pandit, M.W., see Sagar, A.J. (995) 144
Pandya, K.P., Khan, S., Umashankar, , Krishnamurthy, R. and Ray, P.K.
Modulation of benzene toxicity by polyinosinic-polycytidilic acid, an interferon inducer (992) 23
Paneque, A., see Ruiz, M.T. (993) 36
Paolini, R., see Cifone, M.G. (1011) 25
Papadopoulos, A., see Senger, D.R. (996) 43
Papamichael, E., see Bieth, J.G. (994) 64
Papp, S., see Keresztes, T. (984) 326
Paquin, J., Benjannet, S., Sawyer, N., Lazure, C., Chrétien, M. and Seidah, N.G.
Rat plasma kallikrein: purification, NH_2-terminal sequencing and development of a specific radioimmunoassay (999) 103
Parenti Castelli, G., see Baracca, A. (976) 77
Paris, H., see Gauthier, T. (975) 231
Parisi, M., see Porta, M. (980) 220
Park, D.-G., Nam, S.S., Kim, K. and Kim, H.
Effect of high pressure on the light-induced structural change of bacteriorhodopsin reconstituted in liposome (973) 19
Park, J.H., see Wilder, R.T. (997) 65
Park, M.H., see Abbruzzese, A. (997) 248
Park, N.G., see Suenaga, M. (981) 143
Parkos, C.A., see Quinn, M.T. (987) 83
Parodi, S., see Tornaletti, S. (1007) 112
Parrett, K.G., Mehari, T., Warren, P.G. and Golbeck, J.H.
Purification and properties of the intact P-700 and F_X-containing Photosystem I core protein (973) 324
Parsegian, V.A., see Rand, R.P. (988) 351
Pasanen, M., see Usanov, S.A. (998) 189
Pascal, M.-C., see Silvestro, A. (999) 208
Paschenko, V.Z., see Stahl, U. (973) 198
Passamonti, S. and Sottocasa, G.L.
The role of sulfhydryl groups in sulfobromophthalein transport in rat liver plasma membrane vesicles (979) 294
Passarelli, V., see Gualtieri, P. (993) 293
Passow, H., see Bartel, D. (985) 355
Passow, H., see Berghout, A. (986) 75
Passow, H., see Legrum, B. (979) 193
Passow, H., see Raida, M. (980) 291
Pasternak, C.A., see Bashford, C.L. (983) 56
Patel, H.M., see Moghimi, S.M. (984) 379
Patel, H.M., see Moghimi, S.M. (984) 384
Patel, Y., see Krishnamurthi, S. (1010) 258
Paterniti Jr., J.R., see Oka, K. (1008) 351
Patrick, A.D., see Hall, N.A. (993) 245
Patrignani, P., Morton, H., Cirino, M., Lord, A., Charette, L., Gillard, J., Rokach, J. and Patrono, C.
Fractional conversion of thromboxane A_2 and B_2 to urinary 2,3-dinor-thromboxane B_2 and 11-dehydrothromboxane B_2 in the cynomolgus monkey (992) 71
Patrono, C., see Ciabattoni, G. (992) 66
Patrono, C., see Patrignani, P. (992) 71
Patton, G.M., see Robins, S.J. (1004) 327
Patton, S., Huston, G.E., Jenness, R. and Vaucher, Y.
Differences between individuals in high-molecular weight glycoproteins from mammary epithelia of several species (980) 333
Paulson, B.K., Porter, T.J. and Kent, C.
The effect of polycyclic aromatic hydrocarbons on choline kinase activity in mouse hepatoma cells (1004) 274
Paulussen, R.J.A., Geelen, M.J.H., Beynen, A.C. and Veerkamp, J.H.
Immunochemical quantitation of fatty-acid-binding proteins. I. Tissue and intracellular distribution, postnatal development and influence of physiological conditions on rat heart and liver FABP (1001) 201
Pauwels, S., Najdovski, T., Dimaline, R., Lee, C.M. and Deschodt-Lanckman, M.
Degradation of human gastrin and CCK by endopeptidase 24.11: differential behaviour of the sulphated and unsulphated peptides (996) 82
Pavan, A., Mancini, P., Frati, L., Torrisi, M.R. and Pinto da Silva, P.
Molecular cytochemistry of CD3 and CD4 antigens in human lymphocytes as studied by label-fracture and by fracture-label (978) 158
Payan, P., see Walter, P. (1012) 219
Payne, C.S., Saeed, M. and Wolfe, A.D.
Ligand stabilization of cholinesterases (999) 46
Peach, R.J. and Brennan, S.O.
Identification of a calcium-dependent microsomal proteinase responsible for monobasic cleavage of chicken proalbumin (990) 276
Peach, R.J., see Brennan, S.O. (993) 48
Pears, J., Jung, R.T. and Burchell, A.
Amiloride activation of hepatic microsomal glucose-6-phosphatase; activation of T1? (993) 224
Pearson, J.D., see McCroskey, M.C. (1011) 212
Pearson, J.D., see Morgan, D.M.L. (1010) 184
Pedersen, E.J., see Petersen, A. (1012) 267
Pedersen, J.I., see Östlund Farrants, A.-K. (1002) 198
Pedersen, J.Z., see Marcocci, L. (979) 99
Pedersen, P.S., see Doughney, C. (1010) 352
Pedrazzini, A., Freedman, A.S. and Nadler, L.M.
Autologous bone-marrow transplantation in Non-Hodgkin's lymphomas (989) 11
Pedrini, A.M., see Tornaletti, S. (1007) 112
Peeters, P.A.M., Brunink, B.G., Eling, W.M.C. and Crommelin, D.J.A.
Therapeutic effect of chloroquine(CQ)-containing immunoliposomes in rats infected with *Plasmodium berghei* parasitized mouse red blood cells: comparison with combinations of antibodies and CQ or liposomal CQ (981) 269
Peeters, R.A., Veerkamp, J.H. and Demel, R.A.
Are fatty acid-binding proteins involved in fatty acid transfer? (1002) 8
Peisach, J., see Freedman, J.H. (992) 145
Peled, Y., Halpern, Z., Eitan, B., Goldman, G., Konikoff, F. and Gilat, T.
Biliary micellar cholesterol nucleates via the vesicular pathway (1003) 246
Pelkonen, O., see Usanov, S.A. (998) 189
Pellegrini, R., see Burlini, N. (1014) 153
Pelletier, D.A., see Ratner, D.I. (1008) 71
Pemrick, S.M., see Chowrashi, P.K. (990) 216
Peng, S.-K., see Morin, R.J. (1004) 139
Penningroth, S.M., see Rose, P.M. (990) 31
Pentchev, P.G., see Mackie, E.J.B. (1006) 219
Pentland, A., see Holtzman, M.J. (1003) 204
Pentz, W.H., see Ratner, D.I. (1008) 71
Pepe, F.A., see Chowrashi, P.K. (990) 216
Pepe, F.A., see Chowrashi, P.K. (997) 182
Pepin, D., Bossy, D., Thomas, G., Bereziat, G. and Chambaz, J.
Fate of fatty acids taken up as cholesteryl ester by rat hepatocytes in primary culture from high-density lipoprotein (1006) 52
Péranzi, G., see Benkouka, F. (987) 205
Péranzi, G., see Hervatin, F. (985) 320
Perez-Albarsanz, M.A., see Gutierrez-Ocaña, M.T. (1003) 67
Periclou, A., see Birke, S. (999) 243
Perico, N., see Chiabrando, C. (1006) 167
Perini, J.-M., see Houdret, N. (992) 96
Peris-Ribera, J.E., see Merino, M. (986) 1
Perkins, E.G., see Leszczynski, D.E. (1014) 90
Perova, N.V., see Dergunov, A.D. (1005) 79
Perret, B., see Simard, G. (1001) 225

Perret, B., see Simard, G. (1005) 245
Perruzzi, C.A., see Senger, D.R. (996) 43
Perry, C., see Schweizer, M.P. (1008) 293
Perry, S.V.
The interaction of actin and myosin 40 years ago: a commentary by (1000) 159
Perry, S.V., see Astbury, W.T. (1000) 159
Perry, S.V., see Raggi, A. (997) 135
Pessina, A., Mineo, E., Masserini, M., Neri, M.G. and Cocuzza, C.E.
Inhibition of murine leukemia (WEHI-3B and L1210) proliferation by cholera toxin B subunit (1013) 206
Pestaña, A., see Valencia, A. (990) 93
Peterhans, E., see Stocker, R. (1002) 238
Peterlik, M., see Thalhammer, T. (979) 371
Peters, R.A., see Liébecq, C. (1000) 251
Peters, T.J., see Raja, K.B. (984) 262
Peters, T.J., see Ward, R.J. (993) 131
Petersen, A., Pedersen, E.J. and Quistorff, B.
The Na^+/K^+-ATPase reaction of human erythrocytes is not near equilibrium. A ^{31}P-NMR study (1012) 267
Petersen, J., see Ghanotakis, D.F. (974) 44
Petit, D., see Wang, S.R. (1002) 302
Petrangeli, E., see Maroder, M. (1009) 188
Petrén, S. and Vesterberg, O.
The *N*-acetylneuraminic acid content of five forms of human transferrin (994) 161
Petros, A.M., see De Marco, A. (994) 121
Petrusewicz, J., Lasslo, A., Carter-Burks, G., Gollamudi, R., Dillingham, E.O. and Bond, S.E.
Relationships between chemical structure and inhibition of epinephrine-induced human blood platelet aggregation (983) 161
Petruzzelli, R., Barra, D., Sensi, L., Bossa, F. and Brunori, M.
Amino acid sequence of α-chain of hemoglobin IV from trout (*Salmo irideus*) (995) 255
Pettenazzo, A., see Baritussio, A. (1006) 19
Pettitt, T.R., Rowley, A.F. and Barrow, S.E.
Synthesis of leukotriene B and other conjugated triene lipoxygenase products by blood cells of the rainbow trout, *Salmo gairdneri* (1003) 1
Petty, H.R.
Regulation of RAW264 macrophage morphology and spreading: studies with protein kinase C activators, inhibitors and a cyclic AMP analog (1012) 284
Peuhkurinen, K.J., see Kiviluoma, K.T. (974) 274
Pézolet, M., see Lafleur, M. (980) 85
Pfanner, N., see Hartl, F.-U. (988) 1
Pfeiffer, A., Kopp, R. and Rochlitz, H.
Stimulation of inositol phosphate and diacylglycerol production by RHC 80267, a diacylglycerol-lipase inhibitor, in rat gastric parietal cells: effects on hydrogen ion secretion (1001) 191
Pfeilschifter, J., see Quamme, G. (1013) 159
Pfeilschifter, J., see Quamme, G. (1013) 166
Pflug, J., see Reichl, D. (1006) 246
Pflügl, G., see Müller-Fahrnow, A. (978) 176
Pfützner, A., see Edenharder, R. (1004) 230
Pfützner, M., see Edenharder, R. (1002) 37
Phan, S.H., see Brieland, J.K. (978) 191
Philbrick, D.-J., see Yeo, Y.K. (1001) 25
Philbrick, D.-J., see Yeo, Y.K. (1006) 9
Philippot, J.R., see Sainte-Marie, J. (982) 265
Phillips, M.C., see Ibdah, J.A. (1004) 300
Pianet, I., see Volker, T.T. (984) 243
Piantedosi, R., see Galdieri, M. (1011) 168
Piatti, E., see Fazi, A. (998) 286
Pichel, J.G., see Bustelo, X.R. (977) 341
Pick, U., see Katz, A. (983) 9
Pick, U., see Weiss, M. (974) 254
Pico, G.A. and Houssier, C.
Bile salts–bovine serum albumin binding: spectroscopic and thermodynamic studies (999) 128
Pieper, F.R., see Bloemendal, H. (1007) 245
Pierce, J.H.
Oncogenes, growth factors and hematopoietic cell transformation (989) 179
Pierce-Ramsey, P.A., see McCroskey, M.C. (1011) 212
Pierucci, A., see Ciabattoni, G. (992) 66
Pietsch, J., see Ghishan, F.K. (979) 77
Pignata, S., see D'Agostino, L. (993) 228
Pikuła, S., see Wrzosek, A. (986) 263
Pikula, S., see Keresztes, T. (984) 326
Pikuleva, I.A., see Adamovich, T.B. (996) 247
Pilch, P.F., see Del Vecchio, R.L. (986) 41
Pilot-Matias, T.J., see O'Reilly, M.A. (1011) 140
Pin, S., Hickel, B., Alpert, B. and Ferradini, C.
Parameters controlling the kinetics of ferric and ferrous hemeproteins reduction by hydrated electrons (994) 47
Pinciroli, V., see Chiabrando, C. (1006) 167
Pines, M., see Rosenberg, J. (1014) 189
Pinna, L.A., see Cola, C. (1012) 191
Pinna, L.A., see Dobrowolska, G. (1010) 274
Pinna, L.A., see Meggio, F. (1010) 128
Pinnaduwage, P. and Huang, L.
The role of protein-linked oligosaccharide in the bilayer stabilization activity of glycophorin A for dioleoylphosphatidylethanolamine liposomes (986) 106
Pinnaduwage, P., Schmitt, L. and Huang, L.
Use of a quaternary ammonium detergent in liposome mediated DNA transfection of mouse L-cells (985) 33
Pinto, G., see Della Greca, M. (1004) 271
Pinto da Silva, P., see Pavan, A. (978) 158
Pipkorn, R., see Saffrich, R. (997) 144
Pirkl, V., see Jopski, B. (978) 79
Pison, U., Tam, E.K., Caughey, G.H. and Hawgood, S.
Proteolytic inactivation of dog lung surfactant-associated proteins by neutrophil elastase (992) 251
Pisoni, R.L., see Collarini, E.J. (987) 139
Pisoni, R.L., see Stewart, B.H. (987) 145
Pistorius, E.K., see Meyer, R. (975) 80
Pitt, A.J.A., see Levin, M.S. (1003) 293
Pittman, R.C., see Knecht, T.P. (1002) 365
Pittner, R.A. and Fain, J.N.
Vasopressin transiently stimulates phospholipase C activity in cultured rat hepatocytes (1010) 227
Pizzanelli, A.M., see Gray, M.L. (991) 415
Plá-Delfina, J.M., see Merino, M. (986) 1
Plagemann, P.G.W. and Woffendin, C.
Na^+-dependent and -independent transport of uridine and its phosphorylation in mouse spleen cells (981) 315
Plagemann, P.G.W. and Woffendin, C.
Use of formycin B as a general substrate for measuring facilitated nucleoside transport in mammalian cells (1010) 7
Plaisted, S.M., see MacKenzie, N.E. (994) 166
Plasman, P.O., see Lebrun, P. (1011) 6
Plato, M., see Lubitz, W. (977) 227
Plumb, G.W., Carr, H.J., Newby, V.K. and Lambert, N.
A study of the trypsinolysis of pea 11 S globulin (999) 281
Pochon, F., Barray, M. and Delain, E.
Dissociation of α_2M-macroglobulin into functional half-molecules by mild acid treatment (996) 132
Podevin, R.-A., see Van der Goot, F.G. (986) 332
Podrez, E.A., see Victorov, A.V. (984) 119
Poisson, J.P., see Hagve, T.-A. (1004) 143
Polache, A., see Merino, M. (986) 1
Polet, H. and Fryxell, D.

Effects of epidermal growth factor on protein degradation, the translocation of non-histone proteins to the nucleus and DNA synthesis (1013) 279
Politi, P.M., Rajagopalan, S. and Sinha, B.K.
Free-radical formation by mitomycin C and its novel analogs in cardiac microsomes and the perfused rat heart (992) 341
Poll, E.H.A., see Kaiserman, H.B. (1008) 23
Pollack, S., see Jelicks, L.A. (1012) 261
Pollard, H.B., see Brocklehurst, K.W. (979) 157
Pollio, A., see Della Greca, M. (1004) 271
Pometta, D., see James, R.W. (1002) 292
Pommier, J., see Silvestro, A. (999) 208
Pongubala, J.M.R., see Puri, C.P. (1011) 176
Ponka, P., see Schulman, H.M. (1010) 1
Poosch, M.S. and Yamazaki, R.K.
The oxidation of dicarboxylic acid CoA esters via peroxisomal fatty acyl-CoA oxidase (1006) 291
Pope, J.M., Littlemore, L.A. and Westerman, P.W.
Chain-length dependence of *n*-alkane solubility in phosphatidylcholine bilayers: a ^{2}H-NMR study (980) 69
Porębska-Budny, M., see Stępień, K.B. (997) 49
Porra, R.J., Thompson, W.A. and Kriedemann, P.E.
Determination of accurate extinction coefficients and simultaneous equations for assaying chlorophylls *a* and *b* extracted with four different solvents: verification of the concentration of chlorophyll standards by atomic absorption spectroscopy (975) 384
Porta, M., Capurro, C. and Parisi, M.
Water permeability in the human amnion: pH regulation of the paracellular pathway (980) 220
Porter, T.J., see Paulson, B.K. (1004) 274
Porwit-Bobr, Z., see Potempa, J. (993) 301
Possmayer, F., see Chung, J. (1002) 348
Possmayer, F., see Veldhuizen, R.A.W. (1005) 157
Possmayer, F., see Yu, S.-H. (1005) 93
Potempa, J., Porwit-Bobr, Z. and Travis, J.
Stabilization vs. degradation of *Staphylococcus aureus* metalloproteinase (993) 301
Potier, M., see Maret, A. (996) 254
Pottorf, R.S., see Roeske, R.W. (982) 223
Pou, S., Rosen, G.M., Britigan, B.E. and Cohen, M.S.
Intracellular spin-trapping of oxygen-centered radicals generated by human neutrophils (991) 459
Poujeol, P., see Merot, J. (978) 134
Poupon, M.F., see Redini, F. (991) 359
Powell, G.L., see Sankaram, M.B. (980) 389
Powell, W.S., see Chan, A.C. (1005) 265
Powell, W.S., see Karaplis, A.C. (1010) 369
Powers, L., Schägger, H., Von Jagow, G., Smith, J., Chance, B. and Ohnishi, T.
EXAFS studies of the isolated bovine heart Rieske [2Fe-2S]$^{1+(1+,2+)}$ cluster (975) 293
Pownall, H.J., see Massey, J.B. (999) 111
Pownall, H.J., see Massey, J.B. (999) 121
Poznansky, M.J., see Thomas, P.D. (978) 85
Prado, E.S., see Kouyoumdjian, M. (980) 299
Prado, J.L., see Kouyoumdjian, M. (980) 299
Prangishvili, D.A., see Bukhrashvili, I.S. (1008) 102
Prangishvili, D.A., see Chinchaladze, D.Z. (1008) 113
Prasad, K.U., see Killian, J.A. (978) 341
Prat-Gay, G. and Wolosiuk, R.A.
Differential reactivity of chloroplast fructose-1,6-bisphosphatase to Woodward's reagent K and diethylpyrocarbonate (973) 457
Pratsch, L., Herrmann, A., Schwede, I. and Meyer, H.W.
The influence of poly(ethylene glycol) on the molecular dynamics within the glycocalyx (980) 146
Pratt, E.A., see Ho, C. (988) 173
Precious, W.Y. and Barrett, J.
The possible absence of cytochrome *P*-450 linked xenobiotic metabolism in helminths (992) 215
Prentki, M., see Geschwind, J.-F. (1012) 107
Preobrazhensky, S.N., see Fuki, I.V. (1001) 235
Previtera, L., see Della Greca, M. (1004) 271
Price-Haughey, J., see Misra, S. (1007) 325
Price, N.T., Nakielny, S.F., Clark, S.J. and Proud, C.G.
The two forms of the β-subunit of initiation factor-2 from reticulocyte lysates arise from proteolytic degradation (1008) 177
Price, N.T., see Clark, S.J. (1010) 377
Priest, D.G., see Rhee, M.S. (1011) 122
Prieto, M.J.E., see Aranda, F.J. (985) 26
Primrose, L., see Chester, K.A. (1009) 297
Principato, G., see Talesa, V. (993) 7
Pringle, J.H., see Chester, K.A. (1009) 297
Prins, A., see Sturk, A. (993) 148
Pritchard, Jr., K.A., see Ng, C.F. (1004) 332
Pritchard, P.H., see Subbaiah, P.V. (1003) 145
Privat, J.-P., Egret-Charlier, M., Labbé, H. and Ptak, M.
Interaction of clathrin coat proteins with unilamellar and multilamellar vesicles of phosphatidylcholine (979) 257
Procopio, A., see Cifone, M.G. (1011) 25
Procyk, R., see Blombäck, B. (997) 96
Prodanov, E., see Radi, R.A. (994) 89
Prokazova, N.V., see Matinyan, N.S. (984) 313
Prota, G., see D'Ischia, M. (993) 143
Prota, G., see Palumbo, A. (990) 297
Proud, C.G., see Clark, S.J. (1010) 377
Proud, C.G., see Price, N.T. (1008) 177
Proudfoot, A., see James, R.W. (1002) 292
Proulx, P. and Aubry, H.
Diacylglycerol–phosphatidylethanolamine exchange in *Escherichia coli* (1003) 217
Proulx, P., see Froissart, P. (1002) 376
Przybycien, T.M. and Bailey, J.E.
Structure–function relationships in the inorganic salt-induced precipitation of α-chymotrypsin (995) 231
Ptak, M., see Lakey, J.H. (985) 60
Ptak, M., see Maget-Dana, R. (981) 309
Ptak, M., see Privat, J.-P. (979) 257
Puchois, P., see Steinmetz, A. (1006) 173
Pugh, E.L., Kates, M., Szabo, A.G. and Krajcarski, D.T.
Correlation of enzyme activities with fluorescence anisotropy of dansyl-labeled cytochrome b_5/NADH–cytochrome-b_5 reductase systems in phosphatidylcholine vesicles (985) 255
Pugh, T.A., Shah, J.C., Magee, P.T. and Clancy, M.J.
Characterization and localization of the sporulation glucoamylase of *Saccharomyces cerevisiae* (994) 200
Pugliese, C., see Cronstein, B.N. (987) 176
Pugliese, F., see Ciabattoni, G. (992) 66
Pulcini, D., Stiuso, P., Miele, L., Della Pietra, G. and Colonna, G.
The molecular localization of non-tryptophan chromophores in calf lens crystallins (995) 64
Pullerits, T., see Freiberg, A. (973) 93
Pullman, A., see Furois-Corbin, S. (984) 339
Puri, C.P., Hinduja, I.N., D'souza, A., Elger, W.A.G. and Pongubala, J.M.R.
Binding characteristics of progesterone and antiprogestin ZK 98.299 in human endometrial and myometrial cytosol (1011) 176
Putod-Paramelle, F., see Rigoulet, M. (975) 325
Pyke, D.D., see Chan, A.C. (1005) 265

Q

Quamme, G., Pfeilschifter, J. and Murer, H.
Parathyroid hormone inhibition of Na^+/phosphate cotransport in OK cells: requirement of protein kinase C-dependent pathway (1013) 159

Quamme, G., Pfeilschifter, J. and Murer, H.
Parathyroid hormone inhibition of Na^+/phosphate cotransport in OK cells: intracellular $[Ca^{2+}]$ as a second messenger (1013) 166

Quarck, V.C., see Bassham, J.A. (1000) 403

Queen, S.A., Vander Jagt, D.L. and Reyes, P.
Characterization of adenine phosphoribosyltransferase from the human malaria parasite, *Plasmodium falciparum* (996) 160

Querol, E., see Bernués, J. (1008) 52

Quesada, P., Farina, B. and Jones, R.
Poly(ADP-ribosylation) of nuclear proteins in rat testis correlates with active spermatogenesis (1007) 167

Quick, P., Neuhaus, E., Feil, R. and Stitt, M.
Fluoride leads to an increase of inorganic pyrophosphate and an inhibition of photosynthetic sucrose synthesis in spinach leaves (973) 263

Quick, P., Scheibe, R. and Stitt, M.
Use of tentoxin and nigericin to investigate the possible contribution of ΔpH to energy dissipation and the control of electron transport in spinach leaves (974) 282

Quick, W.P. and Stitt, M.
An examination of factors contributing to non-photochemical quenching of chlorophyll fluorescence in barley leaves (977) 287

Quinn, M.T., Parkos, C.A. and Jesaitis, A.J.
The lateral organization of components of the membrane skeleton and superoxide generation in the plasma membrane of stimulated human neutrophils (987) 83

Quinn, P., see Allan, D. (987) 199

Quinn, P.J., see Koynova, R.D. (980) 377

Quintern, L.E., Zenk, T.S. and Sandhoff, K.
The urine from patients with peritonitis as a rich source for purifying human acid sphingomyelinase and other lysosomal enzymes (1003) 121

Quistorff, B., see Petersen, A. (1012) 267

R

Rabe, H., see Rüstow, B. (1002) 261

Rabes, H.M., see Röttgen, V. (992) 349

Rachmilewitz, E.A., see Shinar, E. (1014) 66

Radding, C.M.
Helical RecA nucleoprotein filaments mediate homologous pairing and strand exchange (1008) 131

Radeck, W., see Schadewaldt, P. (992) 115

Radhakrishnamurthy, B., see Srinivasan, S.R. (1006) 159

Radi, R.A., Rubbo, H. and Prodanov, E.
Comparison of the effects of superoxide dismutase and cytochrome *c* on luminol chemiluminescence produced by xanthine oxidase-catalyzed reactions (994) 89

Rådmark, O., see Fu, J.Y. (1006) 121

Radom, J., Salvayre, R., Negre, A. and Douste-Blazy, L.
Metabolism of pyrenedecanoic acid in Epstein-Barr virus-transformed lymphoid cell lines from normal subjects and from a patient with multisystemic lipid storage myopathy (1005) 130

Radvanyi, F., Keil, A., Saliou, B., Lembezat, M.-P. and Bon, C.
Binding of divalent and trivalent cations with crotoxin and with its phospholipase and its non-catalytic subunits: effects on enzymatic activity and on the interaction of phospholipase component with phospholipids (1006) 183

Raedsch, R., see Galle, P.R. (1003) 250

Ragan, C.I., see Clay, V.J. (975) 112

Raggi, A., Grand, R.J.A., Moir, A.J.G. and Perry, S.V.
Structure–function relationships in cardiac troponin T (997) 135

Rahamim, E., see Shinar, E. (1014) 66

Rahman-Li, Y., see De Duve, C. (1000) 317

Rahmann, H., see Beitinger, H. (984) 293

Raida, M., Wendel, J., Kojro, E., Fahrenholz, F., Fasold, H., Legrum, B. and Passow, H.
Major proteolytic fragments of the murine band 3 protein as obtained after in situ proteolysis (980) 291

Raida, M., see Berghout, A. (986) 75

Rainer, B., see Hermetter, A. (978) 151

Rainteau, D., Wolf, C. and Lavialle, F.
Effects of calcium and calcium analogs on calmodulin: a Fourier transform infrared and electron spin resonance investigation (1011) 81

Rainwater, D.L. and Lanford, R.E.
Production of lipoprotein(a) by primary baboon hepatocytes (1003) 30

Raison, J.K., see Aloia, R.C. (988) 123

Raitt, F., see Apap-Bologna, A. (995) 70

Raja, K.B., Simpson, R.J. and Peters, T.J.
Membrane potential dependence of Fe(III) uptake by mouse duodenum (984) 262

Rajagopalan, S., see Politi, P.M. (992) 341

Rakauskiené, G.A., see Čénas, N.K. (973) 399

Rakotoarison, S., see Ardaillou, N. (991) 445

Rakshit, M.M., see Kundu, M. (985) 97

Ralph, R.K., see Darkin, S.J. (1007) 295

Ralph, R.K., see Goulding, M.D. (1007) 99

Ralph, R.K., see Lints, T. (1013) 287

Ramakrishnan, L. and Rosenberg, N.
abl genes (989) 209

Ramanathan, L., Le, H.V., Labdon, J.E., Mays-Ichinco, C.A., Syto, R., Arai, N., Nagabhushan, T.L. and Trotta, P.P.
Multiple forms of recombinant murine interleukin-4 expressed in COS-7 monkey kidney cells (1007) 283

Ramaschi, G., see Sinigaglia, F. (984) 225

Ramaswamy, K., Harig, J.M., Kleinman, J.G., Harris, M.S. and Barry, J.A.
Sodium–proton exchange in human ileal brush-border membrane vesicles (981) 193

Ramaswamy, K., see Wilson, D. (986) 123

Ramírez, J.M., see Lozano, R.M. (976) 196

Ramírez, M., Muñoz, M.D. and Larriba, G.
The major yeast exoglucanase: an extracellular glycoprotein lacking the carbohydrate outer chain (990) 206

Ramos, H., Attias de Murciano, A., Cohen, B.E. and Bolard, J.
The polyene antibiotic amphotericin B acts as a Ca^{2+} ionophore in sterol-containing liposomes (982) 303

Ramphal, R., see Houdret, N. (992) 96

Ramsden, D.B., see Ahlquist, J.A.O. (1008) 251

Rand, R.P. and Parsegian, V.A.
Hydration forces between phospholipid bilayers (988) 351

Rand, R.P., see Fraser, P.E. (983) 23

Rand, R.P., see Wistrom, C.A. (984) 238

Rangaraj, G., see Boggs, J.M. (981) 243

Rangaraj, G., see Boggs, J.M. (985) 199

Rangheard, M.-S., Langrand, G., Triantaphylides, C. and Baratti, J.

Multi-competitive enzymatic reactions in organic media: a simple test for the determination of lipase fatty acid specificity (1004) 20
Rannström, S., see Slotte, J.P. (985) 90
Rao, A.G.A., Stewart, J.M., Vavrek, R.J., Sillerud, L.O., Fink, N.H. and Cann, J.R.
A fluorometric study of the interaction of bradykinin with lipids (997) 278
Rao, N.U.M., see Hu, H. (1014) 211
Rao, P., see Joshi, U.M. (1004) 309
Rapaka, R.S., see Balasubramaniam, A. (997) 176
Rapoport, R.M., see Waldman, S.A. (999) 157
Rarback, H., see Rothman, S.S. (991) 484
Rasched, I., see Glaser-Wuttke, G. (985) 239
Rasp, G., Hochstrasser, K., Gerl, C. and Wachter, E.
Primary structure of a proteinase inhibitor released from goat serum inter-α-trypsin inhibitor (999) 335
Raszeja-Specht, A., see Rausch, T. (985) 133
Ratkje, S.K., see Garlid, K.D. (976) 109
Ratner, D.I., Pentz, W.H. and Pelletier, D.A.
Prespore gene expression in *Dictyostelium* requires concomitant protein synthesis (1008) 71
Raunio, H., see Usanov, S.A. (998) 189
Rausch, T., Raszeja-Specht, A. and Koepsell, H.
Identification of an M_r 75000 component of the H^+/D-glucose cotransporter from *Zea mays* with monoclonal antibodies directed against the mammalian Na^+/D-glucose cotransporter (985) 133
Raval, P.J., Carter, D.P. and Fairbanks, G.
Relationship of hemolysis buffer structure, pH and ionic strength to spontaneous contour smoothing of isolated erythrocyte membranes (983) 230
Ravel, S., see Sainte-Marie, J. (982) 265
Rawyler, A. and Siegenthaler, P.A.
Change in the molecular organization of monogalactosyldiacylglycerol between resting and functioning thylakoid membranes. Involvement of the CF_0/CF_1-ATP synthetase (975) 283
Rawyler, A. and Siegenthaler, P.A.
A single and continuous spectrophotometric assay for various lipolytic enzymes, using natural, non-labelled lipid substrates (1004) 337
Rawyler, A., see Siegenthaler, P.-A. (975) 104
Ray, P.K., see Pandya, K.P. (992) 23
Reaven, E., see Azhar, S. (1004) 61
Rebuffat, S., see Hajji, M.E. (978) 97
Recio, M.N., see Gutierrez-Ocaña, M.T. (1003) 67
Record, M., see Vallari, D.S. (1006) 250
Rédai Jr., I., see Szabo Jr., G. (979) 365
Reddy, R., see Yuan, Y. (1008) 14
Redgrave, T.G., see Martins, I.J. (1005) 217
Redgrave, T.G., see Mortimer, B.C. (1002) 359
Redhardt, A., see Steinhoff, H.-J. (996) 49
Redini, F., Moczar, E., Antoine, E. and Poupon, M.F.
Binding and internalization of exogenous glycosaminoglycans in weakly and highly metastatic rhabdomyosarcoma cells (991) 359
Redman, C.M., see Dixon, J.L. (1009) 47
Reeck, G.R., see Abdul-Razzak, K.K. (996) 125
Reed, D.J., see Tirmenstein, M.A. (995) 174
Reed, R., see Astbury, W.T. (1000) 159
Reeves, P.M., see Schweizer, M.P. (1008) 293
Rega, A.F., see Rossi, J.P.F.C. (996) 153
Regts, J., see Roerdink, F.H. (980) 234
Rehm, A.M., Gülzow, M. and Ried, A.
Changes in the photosynthetic apparatus of red algae induced by spectral alteration of the light field. I. A decrease in the apparent quantum yield of PS I caused by preillumination with light 1 (973) 131
Rehm, W.S., see Carrasquer, G. (982) 73
Rehm, W.S., see Holloman, T.L. (980) 367
Rehm, W.S., see Schwartz, M. (979) 299
Reibnegger, G., see Werner-Felmayer, G. (1012) 140
Reich, J., see Kypr, J. (1009) 280
Reichard, P. and Rutberg, L.
on 'Formation of deoxycytidine 5′-phosphate from cytidine 5′-phosphate with enzymes from *Escherichia coli*' (1000) 49
Reichard, P.
Commentary by (1000) 49
Reichl, D., Rudra, D.N. and Pflug, J.
The concentration of apolipoprotein A-II in human peripheral lymph (1006) 246
Reichmann, G., see Rüstow, B. (1002) 261
Reid, K.B.M., see Cooper, G.J.S. (1014) 247
Reid, N.M.K., see Ward, R.J. (993) 131
Reidl, H.H., Grover, T.A. and Takemoto, J.Y.
^{31}P-NMR evidence for cytoplasmic acidification and phosphate extrusion in syringomycin-treated cells of *Rhodotorula pilimanae* (1010) 325
Reilly, P.J., see Tao, B.Y. (995) 214
Reimann, E.M., see Hegazy, M.G. (1011) 198
Reinberg, D., see Mermelstein, F.H. (1009) 1
Reinders, J.H., see Van Buul-Wortelboer, M.F. (1011) 129
Reiser, K.M., see Last, J.A. (990) 182
Reithmeier, R.A.F., see Werner, P.K. (982) 309
Rekosh, D., see Hammarskjöld, M.-L. (989) 269
Remacle, J., see Remy, E. (1005) 87
Remuzzi, G., see Chiabrando, C. (1006) 167
Remy, E., Lenoir, G., Houben, A., Vandesteene, C. and Remacle, J.
Inhibition of platelet-activating factor biosynthesis via the acetyltransferase by arachidonic and oleic acids in ionophore A23187-stimulated bovine neutrophils (1005) 87
Renganathan, M. and Bose, S.
Inhibition of primary photochemistry of Photosystem II by copper in isolated pea chloroplasts (974) 247
Renneisen, K., see Müller, W.E.G. (1008) 208
Renstrom, B. and DeLuca, H.F.
Incorporation of retinoic acid into proteins via retinoyl-CoA (998) 69
Renugopalakrishnan, V., see Balasubramaniam, A. (997) 176
Repin, V.S., see Fuki, I.V. (1001) 235
Repyk, A., see Kossykh, V. (1009) 290
Restall, C., see Welte, W. (984) 193
Restall, C.J., see Fowler, C. (980) 348
Reuter, P., see Müller, W.E.G. (1008) 208
Reyes, P., see Queen, S.A. (996) 160
Reymann, A., Braun, W., Drobik, C. and Woermann, C.
Stimulation of bile acid active transport related to increased mucosal cyclic AMP content in rat ileum in vitro (1011) 158
Reynolds, J.J., see Thomson, B.M. (1014) 125
Rhee, M.S., Johnson, T.B., Priest, D.G. and Galivan, J.
The effect of methionine on methotrexate metabolism in rat hepatocytes in monolayer culture (1011) 122
Rhein, L.D., see Abidi, T.F. (992) 362
Rhoda, M.D., see Apovo, M. (984) 26
Ricchelli, F., see Salvato, B. (998) 14
Ricci, G., Vesci, L., Nardini, M., Arduini, A., Storto, S., Rosato, N. and Cavallini, D.
Detection of 2*H*-1,4-thiazine-5,6-dihydro-3,5-dicarboxylic acid (lanthionine ketimine) in the bovine brain by a fluorometric assay (990) 211
Rice, W.R., Sarin, V.K., Fox, J.L., Baatz, J., Wert, S. and Whitsett, J.A.
Surfactant peptides stimulate uptake of phosphatidylcholine by isolated cells (1006) 237
Rich, A.
On looking back at a Biochimica et Biophysica Acta paper published 32 years ago: a commentary by (1000) 82

Rich, A., see Felsenfeld, G. (1000) 82
Rich, P.R., see Hope, A.B. (975) 96
Rich, P.R., see Moody, A.J. (973) 29
Richards, W.G., see Worth, G.A. (993) 134
Richardson, D.J., see McEwan, A.G. (973) 308
Richardson, M., see Ary, M.B. (999) 260
Richaud, P., see Lavorel, J. (973) 290
Richter, W., see Engel, J. (985) 111
Riddell, F.G. and Arumugam, S.
The transport of Li^+, Na^+ and K^+ ions through phospholipid bilayers mediated by the antibiotic M139603 studied by ^{7}Li-, ^{23}Na- and ^{39}K-NMR (984) 6
Rider, C.C., see O'Rourke, A.M. (1010) 342
Ridgway, N.D. and Vance, D.E.
In vitro phosphorylation of phosphatidylethanolamine *N*-methyltransferase by cAMP-dependent protein kinase: lack of in vivo phosphorylation in response to N^6-2′-*O*-dibutryladenosine 3′,5′-cyclic monophosphate (1004) 261
Ridruejo, J.C., Muñoz, M.D., Andaluz, E. and Larriba, G.
Inhibition of yeast exoglucanases by glucosidase inhibitors (993) 179
Ried, A., see Rehm, A.M. (973) 131
Riedel, W. and Werner, D.
Nucleotide sequence of the full-length mouse lamin C cDNA and its deduced amino-acid sequence (1008) 119
Riehl, T.E., see Isaacson, Y. (986) 295
Rifkind, J.M., see Levy, A. (991) 97
Rigaud, J., see Gibrat, R. (979) 46
Rigel, D.F., see Balasubramaniam, A. (997) 176
Righi, D.L., see Forman, S.A. (987) 95
Rigot, W.L., see Shimamoto, C. (991) 284
Rigoulet, M., Ouhabi, R., Leverve, X., Putod-Paramelle, F. and Guérin, B.
Almitrine, a new kind of energy-transduction inhibitor acting on mitochondrial ATP synthase (975) 325
Rijksen, G., see Heesbeen, E.C. (1002) 388
Rijksen, G., see Jansen, G. (985) 266
Rijksen, G., see Ouwerkerk, R. (1010) 294
Riley, P.A., see Lambert, C. (993) 12
Rilfors, L., see Lindblom, G. (988) 221
Rillema, J.A., Tarrant, T.M. and Linebaugh, B.E.
Studies on the mechanism by which prolactin regulates protein, RNA, and DNA synthesis in Nb_2 node lymphoma cells (1014) 78
Rimington, C., Rønnestad, A., Kongshaug, M. and Moan, J.
Convenient preparation of hematoporphyrin esters from higher alcohols; dihexyl, dioctyl, diamyl, dibutyl and dipropyl ester (992) 241
Rip, J.W., see Crick, D.C. (1004) 180
Ripoche, P., see Van der Goot, F. (979) 272
Risse, G., Stochaj, U., Elsässer, K., Dieckhoff, J., Mannherz, H.G. and Von der Mark, K.
Structural comparison of the 68 kDa laminin-binding protein and 5′-nucleotidase from chicken muscular sources: Evidence against a gross structural similarity of both proteins (994) 258
Ritonja, A., see Križaj, I. (999) 198
Ritter, J.M., see Barrow, S.E. (993) 121
Riva, S., see Ottolina, G. (998) 173
Robello, M.
Dependence of the conductance of the α-latrotoxin channel on applied potential and potassium concentration (978) 179
Robello, M. and Gliozzi, A.
Conductance transition induced by an electric field in lipid bilayers (982) 173
Robenek, H., see Börchers, T. (1002) 54
Robert, B., see Zhou, Q. (977) 10
Robert, J., see Anghileri, L.J. (982) 307
Robert, J.C., see Benkouka, F. (987) 205
Robert, J.C., see Hervatin, F. (985) 320
Robert, L., see Larnier, C. (1014) 145
Roberti, G., see Andreoni, A. (1014) 8
Roberti, R., Vecchini, A., Freysz, L., Masoom, M. and Binaglia, L.
An improved procedure for the purification of ethanolaminephosphotransferase. Reconstitution of the purified enzyme with lipids (1004) 80
Roberts, A.N., see Cooper, G.J.S. (1014) 247
Roberts, B.
Nuclear location signal-mediated protein transport (1008) 263
Roberts, G.C.K., see Hua, Q.-X. (994) 114
Roberts, M.F., see Robertson, D.E. (992) 320
Roberts, R.C., see Hall, P.K. (993) 217
Robertson, D.E., Lesage, S. and Roberts, M.F.
β-Aminoglutaric acid is a major soluble component of *Methanococcus thermolithotrophicus* (992) 320
Robetto, E.J., Caamaño, C.A., Fernández, H.N. and Dellacha, J.M.
Proteins associated with somatogenic and lactogenic receptors in microsomal membranes and intact rat hepatocytes (1013) 223
Robins, S.J., Fasulo, J.M., Leduc, R. and Patton, G.M.
The transport of lipoprotein cholesterol into bile: a reassessment of kinetic studies in the experimental animal (1004) 327
Robinson, J.D.
Solvent effects on substrate and phosphate interactions with the Na^+/K^+-ATPase (994) 95
Robinson, J.D.
Modification of ligand binding to the Na^+/K^+-activated ATPase (997) 41
Robinson, P., see Gerrard, J.M. (1001) 282
Robitzki, A., see Tampé, R. (982) 41
Robson, L., see Chester, K.A. (1009) 297
Robyt, J.F., see Tao, B.Y. (995) 214
Rocco, M., see Ferrari, N. (1007) 30
Roch, P., Canicatti, C. and Valembois, P.
Interactions between earthworm hemolysins and sheep red blood cell membranes (983) 193
Roche, S. and Magous, R.
Gastrin and CCK-8 induce inositol 1,4,5-trisphosphate formation in rabbit gastric parietal cells (1014) 313
Rochlitz, H., see Pfeiffer, A. (1001) 191
Rock, P., Thompson, T.E. and Tillack, T.W.
Persistence at low temperature of the $P_{\beta'}$ ripple in dipalmitoylphosphatidylcholine multilamellar vesicles containing either glycosphingolipids or cholesterol (979) 347
Rodgers, H.F., see Snyder, J.M. (1002) 1
Rodrigues, L., see Bashford, C.L. (983) 56
Rodríguez-Romero, A., Arreguín, B. and Hernández-Arana, A.
Unusual far-ultraviolet circular dichroism of wheat germ agglutinin and hevein originated from cystine residues (998) 21
Rodwell, V.W., see Scher, D.S. (1003) 321
Roelofsen, B., see Middelkoop, E. (978) 241
Roelofsen, B., see Middelkoop, E. (981) 151
Roerdink, F.H., Regts, J., Handel, T., Sullivan, S.M., Baldeschwieler, J.D. and Scherphof, G.L.
Effect of cholesterol on the uptake and intracellular degradation of liposomes by liver and spleen; a combined biochemical and γ-ray perturbed angular correlation study (980) 234
Roerdink, F.H., see Daemen, T. (991) 145
Roeske, R.W., Hrinyo-Pavlina, T.P., Pottorf, R.S., Bridal, T., Jin, X.-Z. and Busath, D.
Synthesis and channel properties of [Tau^{16}]gramicidin A (982) 223
Rogalska, E., see Abouakil, N. (1002) 225
Rogers, J., see Jain, M.K. (1003) 91
Rogers, T.S., Halushka, P.V., Wise, W.C. and Cook, J.A.
Arachidonic acid turnover in peritoneal macrophages is altered in endotoxin-tolerant rats (1001) 169
Rögner, M., see Boekema, E.J. (974) 81

Rohde, M., Mayer, F., Hicks, D.B. and Krulwich, T.A.
Immunoelectron microscopic localization of the F_1F_0 ATPase (ATP synthase) on the cytoplasmic membrane of alkalophilic *Bacillus firmus* RAB (985) 233
Röhm, K.-H., see Bagert, U. (999) 36
Røigaard-Petersen, H., Jacobsen, C., Jessen, H., Mollerup, S. and Sheikh, M.I.
Electrogenic uptake of D-imino acids by luminal membrane vesicles from rabbit kidney proximal tubule (984) 231
Roise, D., see Bullough, D.A. (975) 377
Roitsch, T. and Lehle, L.
Requirements for efficient in vitro transcription and translation: a study using yeast invertase as a probe (1009) 19
Rojas, H., see DiPolo, R. (978) 328
Rokach, J., see Mais, D.E. (1012) 184
Rokach, J., see Patrignani, P. (992) 71
Rokolya, A., see Erdődi, F. (1011) 67
Rolfe, S.A. and Bendall, D.S.
The role of an extrinsic 9 kDa polypeptide in oxygen evolution by Photosystem II particles from *Phormidium laminosum* (973) 220
Rols, M.P., see Blangero, C. (981) 295
Rommerts, F.F.G., see Van Amerongen, A. (1001) 243
Roncero, C., Lorenzo, M., Fabregat, I. and Benito, M.
Rates of lipogenesis in fetal hepatocytes in suspension and in primary culture: hormonal effects (1012) 320
Ronco, P., see Dussaule, J.-C. (1005) 34
Rønnestad, A., see Rimington, C. (992) 241
Ronquist, G., see Arvidson, G. (984) 167
Rooney, S.A., see Xu, Z.-x. (1005) 209
Roos, D., see Marijnen, Y.M.T. (1012) 148
Roos, W.
Kinetic properties, nutrient-dependent regulation and energy coupling of amino-acid transport systems in *Penicillium cyclopium* (978) 119
Ropele, M. and Menestrina, G.
Electrical properties and molecular architecture of the channel formed by *Escherichia coli* hemolysin in planar lipid membranes (985) 9
Roques, P., Thomé, F., Dubord, C. and Olomucki, M.
A new type of chemically modified tRNA as a tool for the study of tRNA–aminoacyl-tRNA synthetase interaction (1009) 99
Rosa, J., see Wajcman, H. (998) 25
Rosato, N., Mei, G., Finazzi-Agrò, A., Tancini, B. and Borri-Voltattorni, C.
Time-resolved extrinsic fluorescence of aromatic-L-amino-acid decarboxylase (996) 195
Rosato, N., see Ricci, G. (990) 211
Roscher, A., see Hermetter, A. (978) 151
Rose, F.R., see Cronstein, B.N. (987) 176
Rose, K., Savoy, L.-A., Thim, L., Christensen, M. and Jørgensen, K.H.
Revised amino acid sequence of pancreatic spasmolytic polypeptide exhibits greater similarity with an inducible pS2 peptide found in a human breast cancer cell line (998) 297
Rose, P.M., Rothacker, D.Q. and Penningroth, S.M.
Quantitation of the dynein pool in unfertilized sea urchin eggs (990) 31
Rosen, B.S., see Kitagawa, K. (1014) 83
Rosen, G. and Bar-Tana, J.
Fatty acyl coupled catalase (994) 264
Rosen, G.M., see Pou, S. (991) 459
Rosenberg, J., Pines, M. and Hurwitz, S.
Inhibition of aldosterone secretion by atrial natriuretic peptide in chicken adrenocortical cells (1014) 189
Rosenberg, N., see Ramakrishnan, L. (989) 209
Rosenberg, R.D., see Lau, H.K.F. (996) 95
Rosengren, B., see Svennerholm, L. (1005) 109
Rosenthal, M.D. and Franson, R.C.
Oligomers of prostaglandin B_1 inhibit arachidonic acid mobilization in human neutrophils and endothelial cells (1006) 278
Rosenthal, M.D., Vishwanath, B.S. and Franson, R.C.
Effects of aristolochic acid on phospholipase A_2 activity and arachidonate metabolism of human neutrophils (1001) 1
Rosenthal, M.D., see Franson, R.C. (1006) 272
Rosenthal, W., see Hinsch, K.-D. (1013) 60
Rosi, G., see Talesa, V. (993) 7
Ross, P.E., Helgerson, S.L., Miercke, L.J.W. and Dratz, E.A.
Isoelectric focusing studies of bacteriorhodopsin (991) 134
Ross, R.S., Hoeg, J.M., Higuchi, K., Schumacher, U.K., Fojo, S., Gregg, R.E. and Brewer, Jr., H.B.
Homozygous hypobetalipoproteinemia: transcriptional regulation and 5′-flanking sequence analysis in an apolipoprotein B deficiency state (1004) 29
Rosseneu, M., see Goormaghtigh, E. (1006) 147
Rosseneu, M., see Yang, C.-y. (1002) 231
Rossi, J.P.F.C. and Rega, A.F.
A study to see whether phosphatidylserine, partial proteolysis and EGTA substitute for calmodulin during activation of the Ca^{2+}-ATPase from red cells membranes by ATP (996) 153
Rossi, R.C. and Garrahan, P.J.
Steady-state kinetic analysis of the Na^+/K^+-ATPase. The effects of adenosine 5′-[β,γ-methylene]triphosphate on substrate kinetics (981) 85
Rossi, R.C. and Garrahan, P.J.
Steady-state kinetic analysis of the Na^+/K^+-ATPase. The activation of ATP hydrolysis by cations (981) 95
Rossi, R.C. and Garrahan, P.J.
Steady-state kinetic analysis of the Na^+/K^+-ATPase. The inhibition by potassium and magnesium (981) 105
Rossini, G.P.
Particulate untransformed glucocorticoid-receptor complexes from HeLa cells crosslinked in vivo (1011) 183
Roth, G.S., see Maki, T. (1014) 73
Roth, K.S., Medow, M.S., Moses, L.C., Spencer, P.D. and Schwarz, S.M.
Renal Fanconi syndrome: developmental basis for a new animal model with relevance to human disease (987) 38
Roth, M.R., Avery, R.B. and Welti, R.
Cross-linking of phosphatidylethanolamine neighbors with dimethylsuberimidate is sensitive to the lipid phase (986) 217
Rothacker, D.Q., see Rose, P.M. (990) 31
Rothenberg, S.P., see Kyner, D. (993) 56
Rothman, S.S., Iskander, N., Attwood, D., Vladimirsky, Y., McQuaid, K., Grendell, J., Kirz, J., Ade, H., McNulty, I., Kern, D., Chang, T.H.P. and Rarback, H.
The interior of a whole and unmodified biological object – the zymogen granule – viewed with a high-resolution X-ray microscope (991) 484
Rothstein, A. and Mack, E.
Net efflux of chloride from cell suspensions measured with a K^+ electrode (987) 239
Rotilio, G., see Marcocci, L. (979) 99
Rotin, D., see Grinstein, S. (988) 73
Röttgen, V. and Rabes, H.M.
Deoxyribonucleoside triphosphate pools in regenerating rat liver: effect of hydroxyurea and exogenous deoxypyrimidines (992) 349
Rounsifer, M.E., see Weinhold, P.A. (1006) 299
Roussel, P., see Houdret, N. (992) 96
Roux, B., see Tchouatcha-Tchouassom, J.C. (1009) 121
Roveri, A., see Zhang, L. (1006) 140
Rovery, M., see De Caro, A.M. (994) 281
Rowe, E.S., see Veiro, J.A. (979) 251
Rowley, A.F., see Pettitt, T.R. (1003) 1
Roy, N. and Majumder, G.C.

Purification and characterization of an anti-sticking factor from goat epididymal plasma that inhibits sperm–glass and sperm–sperm adhesions (991) 114
Rózsa, Z., Droppa, M. and Horváth, G.
On the origin of the thermoluminescence band at around +50 °C in isolated subchloroplast particles (973) 350
Rubbo, H., see Radi, R.A. (994) 89
Rubin, A.B., see Semin, B.K. (975) 239
Rubin, E., see Stubbs, C.D. (986) 89
Rubin, N., see Komuniecki, R. (975) 127
Rudchenko, S.A., see Korichneva, I.L. (1014) 173
Rüdel, H., see Börchers, T. (1002) 54
Rudolph, G., see Galle, P.R. (1003) 250
Rudra, D.N., see Reichl, D. (1006) 246
Ruedl, C., Gstraunthaler, G. and Moser, M.
Differential inhibitory action of the fungal toxin orellanine on alkaline phosphatase isoenzymes (991) 280
Ruettinger, R.T., see He, J.-S. (1009) 301
Ruetzel, A., see Lorenz, R.L. (993) 259
Ruf, H., see Kojro, Z. (985) 1
Ruiz, M.-C., see Michelangeli, F. (983) 82
Ruiz, M.T., Cejudo, F.J. and Paneque, A.
Role of Mn(II) as regulator of nitrate assimilation in *Azotobacter chroococcum* (993) 36
Rule, G.S., see Ho, C. (988) 173
Rumrich, G., see Fritzsch, G. (978) 249
Runquist, O.A., see Meryhew, N.L. (991) 470
Russell, G.J. and Lacey, E.
Colchicine binding in the free-living nematode *Caenorhabditis elegans* (993) 233
Russell, P.J., Welsch, J.A. and Wagner, S.
Transformation of *Neurospora crassa* by an integrative transforming plasmid is not enhanced by ribosomal DNA sequences (1008) 243
Russell, R.G.G., see Andrews, H.J. (1012) 128
Russo, P., see Tornaletti, S. (1007) 112
Rustenbeck, I. and Lenzen, S.
Regulation of transmembrane ion transport by reaction products of phospholipase A_2. II. Effects of arachidonic acid and other fatty acids on mitochondrial Ca^{2+} transport (982) 147
Rustenbeck, I., see Lenzen, S. (982) 140
Rüstow, B., Schlame, M., Rabe, H., Reichmann, G. and Kunze, D.
Species pattern of phosphatidic acid, diacylglycerol, CDP-diacylglycerol and phosphatidylglycerol synthesized de novo in rat liver mitochondria (1002) 261
Rusyn, O.I., see Demchenko, A.P. (998) 196
Rutberg, L., see Reichard, P. (1000) 49
Rutgers, M., Balk, P.A. and Van Dam, K.
Effect of concentration of substrates and products on the growth of *Klebsiella pneumoniae* in chemostat cultures (977) 142
Rutgers, M., Van der Gulden, H.M.L. and Van Dam, K.
Thermodynamic efficiency of bacterial growth calculated from growth yield of *Pseudomonas oxalaticus* OX1 in the chemostat (973) 302
Rutherford, A.W., see Evelo, R.G. (973) 428
Rutherford, A.W., see Nitschke, W. (974) 223
Rutherford, A.W., see Van Mieghem, F.J.E. (977) 207
Rutledge, J., see Allen, T.M. (981) 27
Rutter, G.A., Midgley, P.J.W. and Denton, R.M.
Regulation of the pyruvate dehydrogenase complex by Ca^{2+} within toluene-permeabilized heart mitochondria (1014) 263
Ruysschaert, J.-M., see Goormaghtigh, E. (1006) 147
Ruzza, P., see Cola, C. (1012) 191
Ruzzene, M., see Deana, R. (1014) 203
Ryals, P.E., Buhse, Jr., H.E. and Modzejewski, J.
Lipid modification during cytodifferentiation of *Tetrahymena vorax*. Whole cell phospholipids and triacylglycerols of microstomal and macrostomal phenotypes (991) 438
Rynmark, B.-M., see Svennerholm, L. (1005) 109

S

Sa, G., see Das, T. (1002) 164
Saad, F.M., see Holley, R.W. (1000) 99
Saberwal, G. and Nagaraj, R.
A synthetic peptide corresponding to the hydrophobic amino terminal region of pardaxin can perturb model membranes of phosphatidyl choline and serine (984) 360
Saboureau, M., see Laplaud, P.M. (1005) 143
Saburova, E.A., see Demchenko, A.P. (998) 196
Sachinidis, A., see Locher, R. (1012) 279
Sackmann, E., see Bayerl, T.M. (984) 214
Sackmann, E., see Stelzle, M. (981) 135
Sadeque, A.J.M., see Shimizu, T. (995) 116
Sado, M., see Kora, S. (985) 286
Saeed, M., see Payne, C.S. (999) 46
Saenger, W., see Egner, U. (992) 404
Saenger, W., see Müller-Fahrnow, A. (978) 176
Saffrich, R., Kalbitzer, H.R., Bodenmüller, H., Muhn, P., Pipkorn, R. and Schaller, H.C.
^{1}H-Nuclear magnetic resonance studies of the neuropeptide head activator (997) 144
Sagami, H., Lennarz, W.J. and Ogura, K.
The biosynthesis of dehydrodolichyl phosphates by rat liver microsomes (1002) 218
Sagar, A.J., Subbiah, V. and Pandit, M.W.
Studies on the enzymatic and physicochemical behaviour of the trichloroacetic acid-treated and untreated bovine pancreatic ribonuclease (995) 144
Said, H., see Ghishan, F.K. (979) 77
Said, H.M., see Van Voorhis, K. (978) 51
Saidha, T. and Schiff, J.A.
The role of mitochondria in sulfolipid biosynthesis by *Euglena* chloroplasts (1001) 268
Saïle, R., Hocke, G., Tartar, A., Fruchart, J.-C. and Steinmetz, A.
Antipeptide antibodies discriminate between different SAA proteins in human plasma (992) 407
Saïle, R., see Steinmetz, A. (1006) 173
Sainte-Marie, J., Vidal, M., Sune, A., Ravel, S., Philippot, J.R. and Bienvenüe, A.
Modifications of LDL-receptor-mediated endocytosis rates in CEM lymphoblastic cells grown in lipoprotein-depleted fetal calf serum (982) 265
Saint Girons, I., see Wong, P.T.T. (996) 260
Saito, A., see Sekine, S. (1009) 117
Saito, A., see Sugimoto, Y. (992) 400
Saito, H., see Hamaguchi, M. (1009) 143
Saito, H., see Iwasaki, M. (992) 1
Saito, T., see Urashima, T. (992) 375
Saitoh, M., see Takata, K. (986) 18
Saitoh, T., see Yoshida, S. (1004) 239
Sakagishi, Y., see Komoda, T. (990) 165
Sakai, H., Saku, T., Kato, Y. and Yamamoto, K.
Quantitation and immunohistochemical localization of cathepsins E and D in rat tissues and blood cells (991) 367
Sakai, K., Hayashi, M., Kawashima, S. and Akanuma, H.

Calcium-induced localization of calcium-activated neutral proteinase on plasma membranes (985) 51
Sakai, T., Yamaguchi, T., Nakajima, H., Kono, N. and Shimizu, C.
Occurrence of bilirubin-IXβ in the gallbladder bile of eel, *Anguilla japonica* (993) 128
Sakai, T., see Kuroda, H. (987) 154
Sakai, Y., Moritani, C., Tsuda, M. and Tsuchiya, T.
A respiratory-driven and an artificially driven ATP synthesis in mutants of *Vibrio parahaemolyticus* lacking H^+-translocating ATPase (973) 450
Sakakibara, M., Takahashi, I., Takasaki, Y., Mukai, T. and Hori, K.
Construction and expression of human aldolase A and B expression plasmids in *Escherichia coli* host (1007) 334
Sakamoto, Y., see Nakanishi, Y. (996) 209
Sakarellos, C., see Bieth, J.G. (994) 64
Sakashita, Y., see Yashiro, K. (1005) 56
Sakata, T., Nakamura, E., Tsuruta, Y., Tamaki, M., Teraoka, H., Tojo, H., Ono, T. and Okamoto, M.
Presence of pancreatic-type phospholipase A_2 mRNA in rat gastric mucosa and lung (1007) 124
Sakikawa, T., Akimoto, S. and Ohnishi, Y.
The *pnd* gene in *E. coli* plasmid R16: Nucleotide sequence and gene expression leading to cell Mg^{2+} release and stable RNA degradation (1007) 158
Sakiyama, H., Nishino, Y., Tanaka, T., Tomosawa, T., Kinoshita, H., Nagata, K., Chiba, K. and Sakiyama, S.
Purification and characterization of a novel calcium-dependent serine proteinase secreted from malignant hamster embryo fibroblast Nil2C2 (990) 156
Sakiyama, S., see Kageyama, H. (1008) 255
Sakiyama, S., see Sakiyama, H. (990) 156
Sakiyama, S., see Yoda, K. (1009) 194
Sakono, M., see Imaizumi, K. (1005) 253
Saku, T., see Sakai, H. (991) 367
Sakurai, I. and Kawamura, Y.
Effect of a magnetic field on charge flow along the interface between phosphatidylcholine monolayer and water (985) 347
Sakurai, I., Suzuki, T. and Sakurai, S.
Cross-sectional view of myelin figures (985) 101
Sakurai, S., see Sakurai, I. (985) 101
Salahuddin, A., see Ali, N. (992) 30
Salama, A.I., see Caputo, C.B. (1012) 299
Salama, G., see Moutin, M.-J. (984) 289
Salih, E., see Cohen, S.G. (997) 167
Saliou, B., see Radvanyi, F. (1006) 183
Salonen, I.S., Eklund, K.K., Virtanen, J.A. and Kinnunen, P.K.J.
Comparison of the effects of NaCl on the thermotropic behaviour of *sn*-1′ and *sn*-3′ stereoisomers of 1,2-dimyristoyl-*sn*-glycero-3-phosphatidylglycerol (982) 205
Salti, V., Le Hégarat, F., Fontaine, Y. and Hirschbein, L.
Purification and properties of the DNA-binding protein HPB12 from the *B. subtilis* nucleoid (1009) 161
Saltman, P., see Shinar, E. (1014) 66
Salvato, B., Beltramini, M., Ricchelli, F. and Tallandini, L.
Cobalt substitution studies on bovine erythrocyte superoxide dismutase: evidence for a novel cobalt-superoxide dismutase derivative (998) 14
Salvayre, R., see Maret, A. (996) 254
Salvayre, R., see Nègre, A. (1006) 84
Salvayre, R., see Radom, J. (1005) 130
Salyers, K.L., see Bank, P.A. (993) 1
Sambasivarao, D., see Sitaramam, V. (975) 252
Samman, S., see Khosla, P. (1002) 157
Samuelsson, B., see Nicolaou, K.C. (1003) 44
Sanchez, A., see Alonso, M.T. (981) 367
Sanchez, M., Fernández, J., Martin, M., Gibello, A. and Garrido-Pertierra, A.
Purification and properties of two succinic semialdehyde dehydrogenases from *Klebsiella pneumoniae* (990) 225
Sanchika, K., see Katsu, T. (983) 135
Sandborg, R.R. and Smolen, J.E.
The effects of heavy metal cations and sulfhydryl reagents on degranulation from digitonin-permeabilized neutrophils (1010) 330
Sanders, C.E., Melis, A. and Allen, J.F.
In vivo phosphorylation of proteins in the cyanobacterium *Synechococcus* 6301 after chromatic acclimation to Photosystem I or Photosystem II light (976) 168
Sandhoff, K., see Quintern, L.E. (1003) 121
Sandy, J.R., Meghji, S., Farndale, R.W. and Meikle, M.C.
Dual elevation of cyclic AMP and inositol phosphates in response to mechanical deformation of murine osteoblasts (1010) 265
Sanghera, J.S. and Vance, D.E.
Stimulation of CTP : phosphocholine cytidylyltransferase and phosphatidylcholine synthesis by calcium in rat hepatocytes (1003) 284
Sanjanwala, M., Sun, G.Y. and MacQuarrie, R.A.
Purification of lysophosphatidylcholine transacylase from bovine heart muscle microsomes and regulation of activity by lipids and coenzyme A (1006) 203
Sankaram, M.B., De Kruijff, B. and Marsh, D.
Selectivity of interaction of spin-labelled lipids with peripheral proteins bound to dimyristoylphosphatidylglycerol bilayers, as determined by ESR spectroscopy (986) 315
Sankaram, M.B., Powell, G.L. and Marsh, D.
Effect of acyl chain composition on salt-induced lamellar to inverted hexagonal phase transitions in cardiolipin (980) 389
Sano, H., Kamada, I., Youssefian, S. and Wabiko, H.
Correlation between DNA undermethylation and dwarfism in maize (1009) 35
Sano, N., see Takikawa, H. (1004) 147
Sansom, C.E., Schwalbe, C.H., Lambert, P.A., Griffin, R.J. and Stevens, M.F.G.
Structural studies on bio-active compounds. Part XV. Structure-activity relationships for pyrimethamine and a series of diaminopyrimidine analogues versus bacterial dihydrofolate reductase (995) 21
Santini, M.T., see Alvaro, D. (1006) 116
Santini, M.T., see Hausman, R.E. (1013) 92
Santoni, A., see Cifone, M.G. (1011) 25
Santoni, G., see Cifone, M.G. (1011) 25
Santos, V., see Slavkin, H.C. (991) 12
Santucci, A., see Baritussio, A. (1006) 19
Sanyal, S.N., see Gumbhir, K. (981) 77
Sara, V.R., see Carlsson-Skwirut, C. (1011) 192
Sarai, A., see Nussinov, R. (1008) 329
Sarda, L., see La Fournière, L. (998) 158
Sarin, V.K., see O'Reilly, M.A. (1011) 140
Sarin, V.K., see Rice, W.R. (1006) 237
Sarkadi, B., see Magócsi, M. (984) 88
Saroja, M., see Kaimal, T.N.B. (999) 331
Sarre, T.F., see Bader, M. (1009) 61
Sartorelli, L., Mantovani, G. and Ciman, M.
Carnitine and deoxycarnitine concentration in rat tissues and urine after their administration (1006) 15
Sartorio, R., see Barbato, G. (991) 324
Saruta, T., see Nakazato, Y. (1014) 57
Sasaki, T., see Abe, A. (985) 38
Sasaki, T., see Abe, A. (985) 45
Sasaoka, K., see Tsuji, H. (991) 380
Sata, H., Umeda, M., Kim, C.-H., Taniguchi, H. and Maruyama, Y.
Amylase-pullulanase enzyme produced by *B. circulans* F-2 (991) 388
Sathe, S.K., see Wolfe, F.H. (998) 236
Sato, A., Fukumori, Y., Yano, T., Kai, M. and Yamanaka, T.

Thiobacillus ferrooxidans cytochrome *c*-552: purification and some of its molecular features (976) 129
Sato, A., see Ishida, F. (1004) 117
Sato, H., Ishii, T., Sugita, Y. and Bannai, S.
Changes in neutral amino acid transport activity in myeloid leukemia cells differentiated by lipopolysaccharide (983) 259
Sato, M., see Souzu, H. (978) 112
Sato, S., see Kitagawa, T. (987) 235
Sato, T., Hashizume, T., Nakao, K., Akiba, S. and Fujii, T.
Platelet desensitization by arachidonic acid is associated with the suppression of endoperoxide/thromboxane A_2 binding to the membrane receptor (992) 168
Sato, T., see Sugi, K. (987) 217
Sato, W., see Tanaka-Yamamoto, T. (1009) 151
Sato, Y., see Aoyama, Y. (1001) 196
Sato, Y., see Aoyama, Y. (1006) 209
Satoh, K., Nakao, T., Nagai, F., Kano, I., Nakagawa, A., Ushiyama, K., Urayama, O., Hara, Y. and Nakao, M.
A monoclonal antibody against horse kidney ($Na^+ + K^+$)-ATPase inhibits sodium pump and E_2K to E_1 conversion of ($Na^+ + K^+$)-ATPase from outside of the cell membrane (994) 104
Satoh, K., see Enami, I. (973) 35
Satoh, K., see Enami, I. (977) 33
Satoh, K., see Takahashi, Y. (973) 138
Satoh, O., Kudo, Y., Shikata, H., Yamada, K. and Kawasaki, T.
Characterization of amino-acid transport systems in guinea-pig intestinal brush-border membrane (985) 120
Satre, M., see Hajji, M.E. (978) 97
Sattentau, Q.J.
HIV infection and the immune system (989) 255
Sauer, F.D., Kramer, J.K.G., Forester, G.V. and Butler, K.W.
Palmitic and erucic acid metabolism in isolated perfused hearts from weanling pigs (1004) 205
Sauer, K., see Maxson, P. (977) 40
Saulitis, J., see Vesterman, B. (998) 204
Saulnier, J.M., Curtil, F.M., Duclos, M.-C. and Wallach, J.M.
Elastolytic activity of *Pseudomonas aeruginosa* elastase (995) 285
Saunders, F.K., see Mitchell, T.J. (1007) 67
Saunier, B., Goulut, C., Nato, F. and Bourrillon, R.
Biosynthesis of high molecular weight polylactosamine-type glycopeptides in rat Zajdela hepatoma ascites cells (1011) 110
Sautereau, A.M., Betermier, M., Altibelli, A. and Tocanne, J.F.
Adsorption of the cationic antitumoral drug Celiptium to phosphatidylglycerol in membrane model systems. Effect on membrane electrical properties (978) 276
Sautière, P., see Chartier, F. (1008) 309
Sautière, P., see Crevel, G. (1007) 36
Sauve, P., see Cheillan, F. (999) 233
Savard, L., Laroche, A., Lemieux, G. and Pallotta, D.
Developmentally regulated late mRNAs in the encystment of *Physarum polycephalum* plasmodia (1007) 264
Savoy, L.-A., see Rose, K. (998) 297
Savu, L., Vranckx, R., Maya, M., Gripois, D., Blouquit, M.-F. and Nunez, E.A.
Thyroxine-binding globulin and thyroxine-binding prealbumin in hypothyroid and hyperthyroid developing rats (992) 379
Sawada, Y., see Okudaira, N.-I. (981) 1
Sawada, Y., see Yachi, K. (978) 1
Sawasaki, Y., see Ishida, F. (1004) 117
Sawyer, D.B. and Andersen, O.S.
Platelet-activating factor is a general membrane perturbant (987) 129
Sawyer, N., see Paquin, J. (999) 103
Sawyer, W.H., see Learmonth, R.P. (987) 124
Saxton, M.J. and Owicki, J.C.
Concentration effects on reactions in membranes: rhodopsin and transducin (979) 27
Scala, D.D., see Abidi, T.F. (992) 362
Scamrov, A.V., see Chinchaladze, D.Z. (1008) 113
Scarborough, G.A., see Morjana, N.A. (985) 19
Scarlett, L., see Forster, S. (1013) 7
Scawen, M.D., see Spencer, P. (994) 270
Scerbo, L., see Bigler, R.D. (1011) 102
Schaap, M.C.L., see Sturk, A. (993) 148
Schadewaldt, P., Radeck, W., Hammen, H.-W. and Staib, W.
Transamination and oxidative decarboxylation of L-isoleucine, L-alloisoleucine and related 2-oxo acids in perfused rat hind limb muscle (992) 115
Schaer, J.-C., Maurer, U. and Schindler, R.
Control of ribonucleotide reductase in heat- and cold-sensitive mammalian cell-cycle mutants (1009) 90
Schäfer, G., see Tiedge, H. (977) 1
Schafer, R.M., see Leszczynski, D.E. (1014) 90
Schägger, H., see Powers, L. (975) 293
Schagina, L.V., Blaskó, K., Grinfeldt, A.E., Korchev, Y.E. and Lev, A.A.
Cholesterol-dependent gramicidin A channel inactivation in red blood cell membranes and lipid bilayer membranes (978) 145
Schaller, H.C., see Saffrich, R. (997) 144
Schallreuter, K.U. and Wood, J.M.
Calcium regulates thioredoxin reductase in human metastatic melanoma (997) 242
Scharfman, A., see Houdret, N. (992) 96
Schatz, G.H., see Nitsch, C. (975) 88
Scheffers, W.A., see Van Urk, H. (992) 78
Scheibe, R., see Quick, P. (974) 282
Scheibe, R., see Stitt, M. (973) 241
Schelling, D.L., see Cohen, P.T.W. (1008) 125
Schellman, J., see Anfinsen, C.B. (1000) 197
Scher, D.S. and Rodwell, V.W.
3-Hydroxy-3-methylglutaryl coenzyme A lyase from *Pseudomonas mevalonii* (1003) 321
Scherer, S., see Alpes, I. (973) 41
Scherphof, G.L., see Daemen, T. (991) 145
Scherphof, G.L., see Lázár, G. (1011) 97
Scherphof, G.L., see Roerdink, F.H. (980) 234
Schewe, T., see Wiesner, R. (986) 11
Schiff, J.A., see Saidha, T. (1001) 268
Schild, L., see Schönfeld, P. (977) 266
Schindler, H., see Schreibmayer, W. (986) 172
Schindler, R., see Schaer, J.-C. (1009) 90
Schipper, D., see Van Urk, H. (992) 78
Schlame, M., see Rüstow, B. (1002) 261
Schlegel, H.G., see Lorenz, B. (995) 1
Schlegel, J., see Adams, V. (981) 213
Schlegel, W., see Krüger, S. (1001) 9
Schlender, K.K., see Hegazy, M.G. (1011) 198
Schlepper-Schaefer, J., see Aring, J. (1010) 140
Schlepper-Schäfer, J. and Springer, G.F.
Carcinoma autoantigens T and Tn and their cleavage products interact with Gal/GalNAc-specific receptors on rat Kupffer cells and hepatocytes (1013) 266
Schlesinger, D.H., see Audhya, T. (995) 10
Schlodder, E., see Gerken, S. (977) 52
Schlodder, E., see Meyer, B. (974) 36
Schmall, M.W., Gorman, L.A.S. and Dordick, J.S.
Ligninase-catalyzed hydroxylation of phenols (999) 267
Schmid, A., see Benz, R. (981) 8
Schmid, C., see Kerler, F. (990) 15
Schmid, G.H., see Bader, K.P. (974) 303
Schmid, G.H., see Franck, F. (977) 215
Schmid, K., see Araki, T. (994) 195
Schmidt, K.-H., see Jopski, B. (978) 79
Schmidt, M.F.G.
Fatty acylation of proteins (988) 411
Schmitt, J.J. and Zimmermann, U.

Enhanced hybridoma production by electrofusion in strongly hypo-osmolar solutions (983) 42
Schmitt, L., see Pinnaduwage, P. (985) 33
Schmutzler, R.K., see Arnold, W.M. (979) 142
Schnebli, H.P., see Dean, R.T. (992) 174
Schneider, H., see Fuhrmann, G.F. (983) 179
Schneider, H.R. and Issinger, O.-G.
Growth-dependent modulation of casein kinase II and its substrate nucleolin in primary human cell cultures and HeLa cells (1014) 98
Schneider, K., see Lorenz, B. (995) 1
Schneider, W.J.
The low density lipoprotein receptor (988) 303
Schoemaker, H.E., see Harvey, P.J. (994) 59
Schoenleber, R., see Clagett-Dame, M. (986) 271
Schofield, J.G., see Wood, C.A. (1013) 180
Schofield, J.G., see Wood, C.A. (1013) 97
Schohn, H., see Guéant, J.L. (992) 281
Scholich, H., Murphy, M.E. and Sies, H.
Antioxidant activity of dihydrolipoate against microsomal lipid peroxidation and its dependence on α-tocopherol (1001) 256
Scholz, G., see Churchich, J.E. (996) 181
Schönfeld, P., Schild, L. and Kunz, W.
Long-chain fatty acids act as protonophoric uncouplers of oxidative phosphorylation in rat liver mitochondria (977) 266
Schönlein, C., see Demuth, H.-U. (996) 19
Schoppink, P.J., Hemrika, W. and Berden, J.A.
The effect of deletion of the genes encoding the 40 kDa subunit II or the 17 kDa subunit VI on the steady-state kinetics of yeast ubiquinol–cytochrome-*c* oxidoreductase (974) 192
Schornagel, J.H., see Jansen, G. (985) 266
Schorsch, B., see Birke, S. (999) 243
Schram, A.W., see Al, B.J.M. (1004) 245
Schreiber, E., see Superti-Furga, G. (1007) 237
Schreibmayer, W., Tritthart, H.A. and Schindler, H.
The cardiac sodium channel shows a regular substate pattern indicating synchronized activity of several ion pathways instead of one (986) 172
Schreier, S., see Lamy-Freund, M.T. (981) 207
Schröder, H.C., see Müller, W.E.G. (1008) 208
Schröder, W.P., see Henrysson, T. (977) 301
Schröder, W.P., see Sundblad, L.-G. (973) 47
Schroepfer, Jr., G.J., see Stephens, T.W. (1001) 127
Schuber, F., see Muller, C.D. (986) 97
Schubert, R., see Jopski, B. (978) 79
Schuddemat, J., De Boo, R., Van Leeuwen, C.C.M., Van den Broek, P.J.A. and Van Steveninck, J.
Polyphosphate synthesis in yeast (1010) 191
Schuddemat, J., Van Leeuwen, C.C.M., Van den Broek, P.J.A. and Van Steveninck, J.
Mechanism of transport-associated phosphorylation of 2-deoxy-D-glucose in the yeast *Kluyveromyces marxianus*: characterization of the phosphoryl source (986) 290
Schulman, H.M., Ponka, P., Wilczynska, A., Gauthier, Y. and Shyamala, G.
Transferrin receptor and ferritin levels during murine mammary gland development (1010) 1
Schultz, G., see Hinsch, K.-D. (1013) 60
Schultz, J.E., see Ludwig, O. (978) 319
Schulz, B., see Arvinte, T. (981) 51
Schulz, B., see Arvinte, T. (981) 61
Schulz, M.W., see Cheney, B.V. (996) 116
Schulz, W., see Korbmacher, C. (1010) 311
Schulz, W.A. and Gais, G.
Constitutive c-*myc* expression enhances proliferation of differentiating F9 teratocarcinoma cells (1013) 125
Schumacher, U.K., see Ross, R.S. (1004) 29
Schumm, D.E., Tejwani, R. and Webb, T.E.
Hybridization analysis of RNA transported from rat liver nuclei in response to 35 kDa normal and 60 kDa messenger RNA transport factors (1009) 54
Schürholz, T., Gieselmann, A. and Neumann, E.
Miscibility gap of octyl glucoside-phosphatidylcholine micellar solutions. Partition of the nicotinic acetylcholine receptor into the surfactant-rich phase (986) 225
Schurtenberger, P., see Augusteyn, R.C. (999) 293
Schuurmans Stekhoven, F.M.A.H., Zou, Y.S., Swarts, H.G.P., Leunissen, J. and De Pont, J.J.H.H.M.
Ethylenediamine as active site probe for Na^+/K^+-ATPase (982) 103
Schuurmans Stekhoven, F.M.A.H., see Van der Hijden, H.T.W.M. (987) 75
Schwab, M.
Genetic principles of tumor suppression (989) 49
Schwalbe, C.H., see Sansom, C.E. (995) 21
Schwartz, A.L., see Levin, M.S. (1003) 293
Schwartz, L.B., see Alter, S.C. (991) 426
Schwartz, M., Wu, J., Carrasquer, G. and Rehm, W.S.
Potential difference responses to nutrient K^+, Na^+ and Cl^- changes with varying nutrient HCO_3^- in resting frog stomach (979) 299
Schwartz, M., see Carrasquer, G. (982) 73
Schwartz, M., see Holloman, T.L. (980) 367
Schwarz, G. and Beschiaschvili, G.
Thermodynamic and kinetic studies on the association of melittin with a phospholipid bilayer (979) 82
Schwarz, S.M., see Roth, K.S. (987) 38
Schwarz, W., Keim, H., Fehlau, R. and Fuhrmann, G.F.
Modulation of the Ca^{2+}- or Pb^{2+}-activated K^+-selective channels in human red cells. I. Effects of propranolol (978) 32
Schwarz, W., see Fehlau, R. (978) 37
Schwarzkopf, B., see Kerler, F. (990) 15
Schwede, I., see Pratsch, L. (980) 146
Schweer, H., see Abeywardena, M.Y. (1003) 161
Schweizer, M.P., Olsen, J.I., Stolk, J.A., Lee, Y.-C., Reeves, P.M., Perry, C. and De, N.
Interactions of *Escherichia coli* SO-187 $tRNA_1^{Val}$ with *Bacillus stearothermophilus* valine-tRNA synthetase studied by ^{13}C-NMR (1008) 293
Schwenk, M., see Locher, M. (1003) 196
Scott, C.W., see Caputo, C.B. (1012) 299
Scott, G.K., Seow, H.F. and Tse, C.A.
Investigations into the nature of growth-related proteolysis in human fibroblasts (1010) 160
Scott, M.P., Tamkun, J.W. and Hartzell III, G.W.
The structure and function of the homeodomain (989) 25
Scow, R.O., see Oka, K. (1008) 351
Screpanti, I., see Maroder, M. (1009) 188
Scurti, R., see Arduini, A. (979) 1
Sczekan, S.R. and Joshi, J.G.
Metal-binding properties of phytoferritin and synthetic iron cores (990) 8
Sebban, P. and Wraight, C.A.
Heterogeneity of the $P^+Q_A^-$ recombination kinetics in reaction centers from *Rhodopseudomonas viridis*: the effects of pH and temperature (974) 54
Sechi, A.M., see Landi, L. (984) 21
Segade, F., see Bustelo, X.R. (977) 341
Seibert, M., Tamura, N. and Inoue, Y.
Lack of photoactivation capacity in *Scenedesmus obliquus* LF-1 results from loss of half the high-affinity manganese-binding site. Relationship to the unprocessed D1 protein (974) 185
Seidah, N.G., see Paquin, J. (999) 103
Sekine, S., Mizukami, T., Saito, A., Kawauchi, H. and Itoh, S.

Isolation and characterization of a novel growth hormone cDNA from chum salmon (*Oncorhynchus keta*) (1009) 117
Sekine, T., see Komoda, T. (990) 165
Sekler, I., see Weiss, M. (974) 254
Selden, L.A., see Gershman, L.C. (995) 109
Selin, E., see Öblad, M. (975) 267
Sellinger, O.Z., see De Duve, C. (1000) 317
Sells, B.H., see Larson, D.E. (1009) 177
Selman, B.R., see Duhe, R.J. (974) 294
Seman, M., see Henry-Toulmé, N. (982) 245
Semenov, A.Y., see Drachev, L.A. (973) 189
Semin, B.K., Ivanov, I.I. and Rubin, A.B.
Effects of calcium-channel blockers and activator on electron transport in pea chloroplasts (975) 239
Senda, M., see Oka, K. (1008) 351
Sener, A., see Blachier, F. (1013) 144
Sener, A., see Malaisse, W.J. (1013) 133
Sener, A., see Malaisse-Lagae, F. (998) 118
Senge, M. and Senger, H.
Enzymic *meso*-chlorination of chlorophylls using chloroperoxidase (977) 177
Senger, D.R., Perruzzi, C.A., Papadopoulos, A. and Tenen, D.G.
Purification of a human milk protein closely similar to tumor-secreted phosphoproteins and osteopontin (996) 43
Senger, H., see Senge, M. (977) 177
Senior, J. and Gregoriadis, G.
Dehydration-rehydration vesicle methodology facilitates a novel approach to antibody binding to liposomes (1003) 58
Sensel, M., see Cisar, L.A. (1004) 196
Sensi, L., see Petruzzelli, R. (995) 255
Seow, H.F., see Scott, G.K. (1010) 160
Separovic, F., see Cornell, B.A. (985) 229
Serhan, C.N.
On the relationship between leukotriene and lipoxin production by human neutrophils: evidence for differential metabolism of 15-HETE and 5-HETE (1004) 158
Serhan, C.N., see Nicolaou, K.C. (1003) 44
Series, J., Cameron, I., Caslake, M., Gaffney, D., Packard, C.J. and Shepherd, J.
The *Xba*1 polymorphism of the apolipoprotein B gene influences the degradation of low density lipoprotein in vitro (1003) 183
Serrano, R., see Monk, B.C. (981) 226
Seshadri, R., see Burke, T.G. (982) 123
Setoguchi, M., Nasu, N., Yoshida, S., Higuchi, Y., Akizuki, S. and Yamamoto, S.
Mouse and human CD14 (myeloid cell-specific leucine-rich glycoprotein) primary structure deduced from cDNA clones (1008) 213
Sewing, K.-F., see Locher, M. (1003) 196
Shafrir, E., see Levy, E. (1005) 20
Shah, J.C., see Pugh, T.A. (994) 200
Shainberg, A., see Brik, H. (980) 273
Shaklai, N., see Solar, I. (983) 199
Shalev, J., see Lavie, E. (991) 62
Shall, S., see McNerney, R. (1009) 185
Shannon, J.M., see Emrie, P.A. (994) 215
Shannon, J.M., see Fisher, J.H. (995) 225
Shantharam, P. and SrinivasaRao, P.
Activity of myelin membrane Na^+/K^+-ATPase and 5′-nucleotidase in relation to phospholipid acyl profiles, ganglioside composition and phosphoinositides in developing brains of undernourished rats (982) 115
Sharp, C.M., see Stark, H.A. (1010) 145
Sharp, G.W.G., see Chalmers, J.A. (1011) 46
Shatilov, V.R., Loseva, L.P., Bendianishvili, M.V., Shubin, V.V. and Kretovich, W.L.
Essential lysine residue(s) in the coenzyme non-specific glutamate dehydrogenase from *Chlorella pyrenoidosa* 82T is responsible for irreversible inactivation by diethyl pyrocarbonate and unspecific inhibition by 4-chloromercuribenzoate (994) 222
Shatilov, V.R., Loseva, L.P., Tsuprun, V.L., Kaftanova, A.S. and Kretovich, W.L.
Coenzyme non-specific glutamate dehydrogenase from *Chlorella pyrenoidosa* 82T: electron microscopic studies (995) 17
Shaw, D.C., see Treacy, G.B. (990) 263
Shaw, K., Montague, W. and Pallot, D.J.
Biochemical studies on the release of catecholamines from the rat carotid body in vitro (1013) 42
Shaw, R.W., see Hirasawa, M. (994) 229
Shaw, R.W., see Myers, J.L. (995) 264
Sheerin, H.E., Snyder, L.M. and Fairbanks, G.
Cation transport in oxidant-stressed human erythrocytes: heightened *N*-ethylmaleimide activation of passive K^+ influx after mild peroxidation (983) 65
Sheikh, M.I., see Røigaard-Petersen, H. (984) 231
Shen, J.-R., see Enami, I. (973) 35
Shen, J.-R., see Enami, I. (977) 33
Shepherd, J., see Series, J. (1003) 183
Sheppard, M.C., see Ahlquist, J.A.O. (1008) 251
Sherratt, H.S.A., see Veitch, K. (1006) 335
Sherrill, B.C., see Ghiselli, G. (1006) 26
Shet, M.S. and Madaiah, M.
A lectin from the thigh muscle of *Rana tigerina* (991) 465
Sheu, S.Y., see Lee, K.R. (1011) 12
Shewry, P.R., see Ary, M.B. (999) 260
Shi, S.P., Chang, C.C.Y., Gould, G.W. and Chang, T.Y.
Comparison of phosphatidylethanolamine and phosphatidylcholine vesicles produced by treating cholate-phospholipid micelles with cholestyramine (982) 187
Shiao, M.-S., see Wang, C.-N. (986) 151
Shiao, Y.-J., Chen, J.-C. and Wang, C.-T.
The solubilization and morphological change of human platelets in various detergents (980) 56
Shibata, H., Zheng, J.-H., Koikeda, S., Masamune, Y. and Nakanishi, Y.
Cis- and *trans*-acting factors for transcription of the adenovirus 12 E1A gene (1007) 184
Shibata, N., see Onji, T. (999) 248
Shichi, H., see Tsunasawa, S. (994) 191
Shifter, A., see Shinar, E. (1014) 66
Shiga, M., see Takata, K. (986) 18
Shikata, H., see Satoh, O. (985) 120
Shiloni, E., see Chajek-Shaul, T. (1001) 316
Shimada, H., see Taira, M. (1007) 203
Shimada, K., Mimuro, M., Tamai, N. and Yamazaki, I.
Excitation energy transfer in *Rhodobacter sphaeroides* analyzed by the time-resolved fluorescence spectroscopy (975) 72
Shimada, K., see Ohta, M. (1011) 33
Shimamoto, C., Deshmukh, G.D., Rigot, W.L. and Boland, C.R.
Analysis of cancer-associated colonic mucin by ion-exchange chromatography: evidence for a mucin species of lower molecular charge and weight in cancer (991) 284
Shimeno, H., see Soeda, S. (999) 29
Shimizu, C., see Sakai, T. (993) 128
Shimizu, H., see Utsumi, J. (998) 167
Shimizu, K., see Kohara, H. (991) 141
Shimizu, M., see Kageyama, H. (1008) 255
Shimizu, M., see Kaminogawa, S. (998) 50
Shimizu, N., Kobayashi, K. and Hayashi, K.
Kinetics of the reaction of superoxide anion with ferric horseradish peroxidase (995) 133
Shimizu, S., see Hata, H. (990) 175
Shimizu, S., see Juneja, L.R. (1003) 277
Shimizu, T., Sadeque, A.J.M., Hatano, M. and Fujii-Kuriyama, Y.

Bindings of axial ligands to cytochrome P-450$_d$ mutants: a difference absorption spectral study (995) 116
Shimizu, T., see Ogoma, Y. (997) 188
Shimizu, Y., see Takasu, N. (1012) 117
Shimokawa, O., Kato, Y., Kawano, K. and Nakayama, H.
Accumulation of 14α-methylergosta-8,24(28)-dien-3β,6α-diol in 14α-demethylation mutants of *Candida albicans*: genetic evidence for the involvement of 5-desaturase (1003) 15
Shina, T., see Miyazaki, A. (975) 142
Shinar, E., Rachmilewitz, E.A., Shifter, A., Rahamim, E. and Saltman, P.
Oxidative damage to human red cells induced by copper and iron complexes in the presence of ascorbate (1014) 66
Shingler, V. and Thomas, C.M.
Analysis of nonpolar insertion mutations in the *trfA* gene of IncP plasmid RK2 which affect its broad-host-range property (1007) 301
Shinkarev, V.P., see Drachev, L.A. (973) 189
Shioda, M., Matsuzawa, Y., Murakami-Murofushi, K. and Ohta, J.
DNA synthesis by the isolated nuclear matrix from synchronized plasmodia of *Physarum polycephalum* (1007) 254
Shiozawa, J.A., Brandts, J.F. and Jacobson, B.S.
Binding of plasma membrane glycoproteins to the cytoskeleton during patching and capping is consistent with an entropy-enhancement model (980) 361
Shirabe, K., Yubisui, T. and Takeshita, M.
Expression of human erythrocyte NADH-cytochrome b_5 reductase as an α-thrombin-cleavable fused protein in *Escherichia coli* (1008) 189
Shires, S.E., Kelleher, J. and Trejdosiewicz, L.K.
Effects of linoleic acid and mitogenic stimulation on the fatty acid composition of human lymphocytes (1002) 74
Shkuropatov, A.Y., see Katz, E.Y. (976) 121
Shopes, R.J., Blubaugh, D.J., Wraight, C.A. and Govindjee,
Absence of a bicarbonate-depletion effect in electron transfer between quinones in chromatophores and reaction centers of *Rhodobacter sphaeroides* (974) 114
Shore, V.G., see Gong, E.L. (1006) 317
Shore, V.G., see Nichols, A.V. (1001) 325
Shubin, V.V., see Shatilov, V.R. (994) 222
Shuman, H.A., see McMorrow, I. (981) 21
Shur, B.D.
Expression and function of cell surface galactosyltransferase (988) 389
Shuvaev, V.V., see Dergunov, A.D. (1005) 79
Shuvalov, V.A., see Katz, E.Y. (976) 121
Shwartz, R., see Stein, O. (1003) 115
Shyamala, G., see Schulman, H.M. (1010) 1
Sibille, J.-C., Kondo, H. and Aisen, P.
Uptake of ferritin and iron bound to ferritin by rat hepatocytes: modulation by apotransferrin, iron chelators and chloroquine (1010) 204
Siebe, H., see Korbmacher, C. (1010) 311
Siedlecki, J.A., see Nowak, R. (1008) 203
Siegenthaler, P.-A., Rawyler, A. and Smutny, J.
The phospholipid population which sustains the uncoupled non-cyclic electron flow activity is localized in the inner monolayer of the thylakoid membrane (975) 104
Siegenthaler, P.A., see Rawyler, A. (975) 283
Siegenthaler, P.A., see Rawyler, A. (1004) 337
Sielhorst, G., see Fauler, J. (1013) 80
Sierra, J.M., see Mateu, M.G. (1007) 55
Sies, H., see Di Mascio, P. (1007) 151
Sies, H., see Kunst, M. (982) 15
Sies, H., see Kunst, M. (983) 123
Sies, H., see Scholich, H. (1001) 256
Sigworth, F.J., see Heinemann, S.H. (987) 8
Sikora-VanMeter, K., see Sokolove, P.M. (983) 15
Siliprandi, N., see Di Lisa, F. (973) 185
Sillerud, L.O., see Rao, A.G.A. (997) 278
Silvestro, A., Pommier, J., Pascal, M.-C. and Giordano, G.
The inducible trimethylamine N-oxide reductase of *Escherichia coli* K12: its localization and inducers (999) 208
Silvius, J.R., see Brown, P.M. (980) 181
Silvius, J.R., see Gardam, M. (980) 319
Sim, K.Y., see Tang, B.L. (1014) 162
Simard, G., Loiseau, D., Girault, A. and Perret, B.
Reactivity of HDL subfractions towards lecithin–cholesterol acyltransferase. Modulation by their content in free cholesterol (1005) 245
Simard, G., Perret, B., Durand, S., Collet, X., Chap, H. and Douste-Blazy, L.
Phosphatidylcholine and triacylglycerol hydrolysis in HDL as induced by hepatic lipase: modulation of the phospholipase activity by changes in the particle surface or in the lipid core (1001) 225
Simic, M.G., see Jovanovic, S.V. (1008) 39
Simmerman, H.K.B., Lovelace, D.E. and Jones, L.R.
Secondary structure of detergent-solubilized phospholamban, a phosphorylatable, oligomeric protein of cardiac sarcoplasmic reticulum (997) 322
Simmonds, W.J., see Mortimer, B.C. (1002) 359
Simms, E.S., see Kornberg, A. (1000) 53
Simon, D., see King, R.J. (1001) 294
Simonetti, B.M., see Ciabattoni, G. (992) 66
Simonides, W.S. and Van Hardeveld, C.
Identification and quantification in single muscle fibers of four isoforms of parvalbumin in the iliofibularis muscle of *Xenopus laevis* (998) 137
Simonneaux, G., Bondon, A., Sodano, P. and Sinbandhit, S.
Proton nuclear Overhauser effect investigation of the heme pocket expansion in trimethyl phosphine sperm whale myoglobin (999) 42
Simpson, D., see Vallon, O. (975) 132
Simpson, D.J., Vallon, O. and Von Wettstein, D.
Freeze-fracture studies on barley plastid membranes. VIII. In *viridis*-^{115}, a mutant completely lacking Photosystem II, oxygen evolution enhancer 1 (OEE1) and the α-subunit of cytochrome b-559 accumulate in appressed thylakoids (975) 164
Simpson, D.J., see Andersson, L.A. (974) 163
Simpson, R.J., see Hey, A.W. (997) 27
Simpson, R.J., see Raja, K.B. (984) 262
Sinbandhit, S., see Simonneaux, G. (999) 42
Sinclair-Day, J.D., see Gadsby, P.M.A. (994) 37
Sinensky, M., see Von Gunten, C.F. (1001) 218
Singh, B.R. and Song, P.-S.
Interactions between native oat phytochrome and tetrapyrroles (996) 62
Sinha, A.K., see Kahn, N.N. (984) 113
Sinha, B.K., Dusre, L., Collins, C. and Myers, C.E.
Resistance of paraquat and adriamycin in human breast tumor cells: role of free radical formation (1010) 304
Sinha, B.K., see Politi, P.M. (992) 341
Sinigaglia, F., Torti, M., Ramaschi, G. and Balduini, C.
The occupancy of glycoprotein IIb-IIIa complex modulates thrombin activation of human platelets (984) 225
Sipehia, R., see Daka, N.J. (991) 487
Sitaramam, V., Sambasivarao, D. and Mathai, J.C.
Differential effects of osmotic pressure on mitochondrial respiratory chain and indices of oxidative phosphorylation (975) 252
Sitaramam, V., see Mathai, J.C. (976) 214
Sitrin, M.D., see Brasitus, T.A. (979) 177
Siu, Y.L., see Au, K.S. (978) 197
Sizer, P.J.H., see Bradshaw, J.P. (987) 104
Sizer, P.J.H., see Bradshaw, J.P. (987) 111
Sjögren, H.O., see Thurin, J. (1002) 267

Skau, K.A.
Distribution and solubilization of the molecular forms of acetylcholinesterase in rat urinary bladder and sphincter (995) 195
Skjeldal, L., Draget, K. and Ljones, T.
Enzymatic cleavage of *Clostridium pasteurianum* apoferredoxin and reconstitution of the cleaved products (995) 59
Skoog, M.T., Mehdi, S., Wiseman, J.S. and Bey, P.
The specificity of two proteinases that cleave adjacent to arginine, Cl esterase and acrosin, for peptide *p*-nitroanilide substrates (996) 89
Skou, J.C.
The identification of the sodium-pump as the membrane bound Na^+/K^+-ATPase: a commentary by (1000) 435
Skou, J.C.
on 'The influence of some cations on an adenosine triphosphatase from peripheral nerves' (1000) 435
Skrede, S., Narce, M., Bergseth, S. and Bremer, J.
The effects of alkylthioacetic acids (3-thia fatty acids) on fatty acid metabolism in isolated hepatocytes (1005) 296
Skulachev, V.P., see Drachev, A.L. (976) 190
Skulachev, V.P., see Drachev, L.A. (973) 189
Slabas, A.R., see Cottingham, I.R. (995) 273
Slabas, A.R., see MacKintosh, R.W. (1002) 114
Slater, E.C.
Commentary by (1000) 323
Slater, E.C., see Borst, P. (1000) 323
Slater, T.F., see Balasubramanian, K.A. (1003) 232
Slaughter, R.S., see Kaczorowski, G.J. (988) 287
Slavkin, H.C., Bessem, C., Fincham, A.G., Bringas, Jr., P., Santos, V., Snead, M.L. and Zeichner-David, M.
Human and mouse cementum proteins immunologically related to enamel proteins (991) 12
Sleightholm, M.A., see Barrow, S.E. (993) 121
Sloane, B.F., see Lah, T.T. (993) 63
Sloot, H., see Egberts, J. (1002) 109
Slooten, L., De Smet, M. and Sybesma, C.
Sulfide-dependent electron transport in thylakoids from the cyanobacterium *Oscillatoria limnetica* (973) 272
Slooten, L. and Vandenbranden, S.
Isolation of the proton-translocating F_0F_1-ATPase from *Rhodospirillum rubrum* chromatophores, and its functional reconstitution into proteoliposomes (975) 148
Slooten, L. and Vandenbranden, S.
ATP-synthesis by proteoliposomes incorporating *Rhodospirillum rubrum* F_0F_1 as measured with firefly luciferase: dependence on $\Delta\psi$ and ΔpH (976) 150
Slotboom, A.J., see Middelkoop, E. (978) 241
Slotboom, A.J., see Middelkoop, E. (981) 151
Slotte, J.P., Hedström, G. and Bierman, E.L.
Intracellular transport of cholesterol in type C Niemann-Pick fibroblasts (1005) 303
Slotte, J.P., Hedström, G., Rannström, S. and Ekman, S.
Effects of sphingomyelin degradation on cell cholesterol oxidizability and steady-state distribution between the cell surface and the cell interior (985) 90
Sluse, F.E., see Feller, G. (977) 233
Sluse-Goffart, C.M., see Feller, G. (977) 233
Sluyterman, L.A.A.E., see Kooistra, C. (997) 115
Smit, H.W.J., Van Dorssen, R.J. and Amesz, J.
Charge separation and trapping efficiency in membranes of *Heliobacterium chlorum* at low temperature (973) 212
Smith, G.D., see Ewart, G.D. (997) 83
Smith, I.C.P., see Auger, M. (981) 351
Smith, I.C.P., see Carrier, D. (983) 100
Smith, J., see Powers, L. (975) 293
Smith, K.M., see Andersson, L.A. (974) 163
Smith, L., see Bolgiano, B. (973) 227
Smith, L., see Chance, B. (1000) 345
Smith, R., see Cornell, B.A. (985) 229
Smith, T.C. and Levinson, C.
Quinine inhibits multiple Na^+ and K^+ transport mechanisms in Ehrlich ascites tumor cells (978) 169
Smith, T.L., see Mahfouz, M.M. (1006) 70
Smith, T.L., see Mahfouz, M.M. (1006) 75
Smith, U.H., see Feezel, L.L. (974) 149
Smith, W.G., see Hu, L.-M. (1013) 294
Smith, Z.L., see Vallari, D.S. (1006) 250
Smolen, J.E., see Sandborg, R.R. (1010) 330
Smutny, J., see Siegenthaler, P.-A. (975) 104
Smythers, G.W., see Nussinov, R. (1008) 329
Snead, M.L., see Slavkin, H.C. (991) 12
Snyder, F., see Vallari, D.S. (1006) 250
Snyder, J.M., Rodgers, H.F., Nielsen, H.C. and O'Brien, J.A.
Uptake of the 35 kDa major surfactant apoprotein (SP-A) by neonatal rabbit lung tissue (1002) 1
Snyder, L.M., see Sheerin, H.E. (983) 65
Sodano, P., see Simonneaux, G. (999) 42
Soeda, S., Ohki, H., Shimeno, H. and Nagamatsu, A.
Further characterization of the binding of plasminogen to heparin: evidence for the involvement of lysine residues (999) 29
Sokol, J., see Mackie, E.J.B. (1006) 219
Sokolove, P.M., Westphal, P.A., Kester, M.B., Wierwille, R. and Sikora-VanMeter, K.
Duramycin effects on the structure and function of heart mitochondria. I. Structural alterations and changes in membrane permeability (983) 15
Sokolove, P.M., see Kester, M.B. (980) 127
Solaini, G., see Baracca, A. (976) 77
Solakivi, T., see Jaakkola, O. (1005) 118
Solar, I. and Shaklai, N.
Association of hemin with protein 4.1 as compared to spectrin and actin (983) 199
Soler, F., see Fernandez-Belda, F. (985) 279
Soler, J., see De Arriaga, D. (998) 221
Soliman, A. and Nordlund, S.
Purification and partial characterization of glutamine synthetase from the photosynthetic bacterium *Rhodospirillum rubrum* (994) 138
Solomon, M., see Cohen, S.G. (997) 167
Soma, G.-i., see Hirabayashi, J. (1008) 85
Soma, M.R., Gotto, Jr., A.M. and Ghiselli, G.
Rapid modulation of rat adipocyte lipoprotein lipase: effect of calcium, A23187 ionophore, and thrombin (1003) 307
Somerharju, P., see Vauhkonen, M. (984) 81
Sommerville, J., see Cummings, A. (1014) 319
Son, K. and Alkan, H.
Liposomes prepared dynamically by interactions between bile salt and phospholipid molecules (981) 288
Sonderkamp, T., see Meulendijks, G.H.W.M. (979) 321
Sone, N., Kutoh, E. and Yanagita, Y.
Cytochrome *c*-551 from the thermophilic bacterium PS3 grown under air-limited conditions (977) 329
Song, P.-S., see Singh, B.R. (996) 62
Šonka, J., Kübler, D. and Kinzel, V.
Phosphorylation by cell surface protein kinase of bovine and human fibrinogen and fibrin (997) 268
Sonoda, Y., see Aoyama, Y. (1001) 196
Sonoda, Y., see Aoyama, Y. (1006) 209
Sonoike, K. and Katoh, S.
Simple estimation of the differential absorption coefficient of P-700 in detergent-treated preparations (976) 210
Sopher, O., see Goldman, R. (1001) 120
Sørensen, H., see Børresen, T. (993) 108
Sorenson, M.M., see De Meis, L. (984) 373

Sorimachi, K., Ieiri, T., Kobayashi, M., Horiuchi, R. and Yasumura, Y.
Inhibitory effect of dibutyryl cyclic adenosine monophosphate on the induction of alkaline phosphatase in human fetal liver cell line (1010) 72
Sorkin, A., Kornilova, E., Teslenko, L., Sorokin, A. and Nikolsky, N.
Recycling of epidermal growth factor-receptor complexes in A431 cells (1011) 88
Sorokin, A., see Sorkin, A. (1011) 88
Sorrentino, S., De Prisco, R. and Libonati, M.
Human seminal ribonuclease. Immunological quantitation of cross-reactive enzymes in serum, urine and seminal plasma (998) 97
Sosnovsky, G., see Hu, H. (1014) 211
Sottocasa, G.L., see Miccio, M. (981) 115
Sottocasa, G.L., see Passamonti, S. (979) 294
Soula, G., see Favre, G. (1013) 118
Soumarmon, A., see Benkouka, F. (987) 205
Soumarmon, A., see Hervatin, F. (985) 320
Southall, P., see Chester, K.A. (1009) 297
Souzu, H.
Changes in chemical structure and function in *Escherichia coli* cell membranes caused by freeze-thawing. I. Change of lipid state in bilayer vesicles and in the original membrane fragments depending on rate of freezing (978) 105
Souzu, H., Sato, M. and Kojima, T.
Changes in chemical structure and function in *Escherichia coli* cell membranes caused by freeze-thawing. II. Membrane lipid state and response of cells to dehydration (978) 112
Sowers, A.E.
Evidence that electrofusion yield is controlled by biologically relevant membrane factors (985) 334
Sowers, A.E.
Electrofusion of dissimilar membrane fusion partners depends on additive contributions from each of the two different membranes (985) 339
Soyombo, A.A., see Leake, D.S. (1005) 196
Spach, G., see Duclohier, H. (987) 133
Spagnuolo, S., see D'Agostino, L. (993) 228
Spangfort, M. and Andersson, B.
Subpopulations of the main chlorophyll *a/b* light-harvesting complex of Photosystem II – isolation and biochemical characterization (977) 163
Spangfort, M., see Henrysson, T. (977) 301
Spargo, B.J., see Wistrom, C.A. (984) 238
Spark, L.C., see Astbury, W.T. (1000) 159
Spassov, V.Z., Karshikov, A.D. and Atanasov, B.P.
Electrostatic interactions in proteins. A theoretical analysis of lysozyme ionization (999) 1
Spee-Brand, R., see Van Beurden-Lamers, W.M.O. (990) 232
Speller, R.J., see Jonas, A.J. (984) 257
Spence, M.W., see George, T.P. (1004) 283
Spence, M.W., see Glanville, N.T. (1004) 169
Spence, M.W., see Morash, S.C. (1004) 221
Spencer, P., Bown, K.J., Scawen, M.D., Atkinson, T. and Gore, M.G.
Isolation and characterisation of the glycerol dehydrogenase from *Bacillus stearothermophilus* (994) 270
Spencer, P.D., see Roth, K.S. (987) 38
Spener, F., see Börchers, T. (1002) 54
Spiegelman, B.M., see Kitagawa, K. (1014) 83
Spina, A., see Mangold, J.B. (991) 453
Spolarics, Z., Kalapos, M.P., Lérant, I., Garzó, T., Antoni, F., Mandl, J. and Machovich, R.
Association of thrombin, plasmin, thrombin-antithrombin III complex and plasmin-antithrombin III complex with isolated hepatocytes (1012) 231
Sprecher, D.L., see Mann, W.A. (1005) 239
Sprecher, H., see Hagve, T.-A. (1001) 338
Sprecher, H., see MacDonald, J.I.S. (1004) 151
Sprecher, H., see Masuzawa, Y. (1005) 1
Sprecher, H., see Oliw, E.H. (1002) 283
Springer, G.F., see Schlepper-Schäfer, J. (1013) 266
Spurlock, G., see Morgan, K. (979) 53
Spydevold, and Bremer, J.
Induction of peroxisomal β-oxidation in 7800 C1 Morris hepatoma cells in steady state by fatty acids and fatty acid analogues (1003) 72
Spydevold, and Gautvik, K.
Activities of enzymes of lipid metabolism in Morris hepatoma 7800 C1 cells (1003) 80
Srebreva, L., Iosifidu, M., Chimshirova, K. and Zlatanova, J.
Occurrence of histone $H1^0$-related fraction in differentiated maize roots (1008) 346
Srinivasan, S.R., Vijayagopal, P., Eberle, K., Radhakrishnamurthy, B. and Berenson, G.S.
Low-density lipoprotein binding affinity of arterial wall proteoglycans: characteristics of a chondroitin sulfate proteoglycan subfraction (1006) 159
SrinivasaRao, P., see Shantharam, P. (982) 115
Srivastava, A.K. and Chiasson, J.-L.
Comparative characterization of receptor and non-receptor associated protein tyrosine kinases (996) 13
Srivastava, G., Bawden, M.J., Anderson, A. and May, B.K.
Drug induction of P450IIB1/IIB2 and 5-aminolevulinate synthase mRNAs in rat tissues (1007) 192
Staal, G.E.J., see Heesbeen, E.C. (1002) 388
Staal, G.E.J., see Ouwerkerk, R. (1010) 294
Stabursvik, A., see Boberg, K.M. (1004) 321
Staffa, F., see Kozumplik, V. (1002) 395
Stahl, F., see Korbmacher, C. (985) 67
Stahl, U., Tusov, V.B., Paschenko, V.Z. and Voigt, J.
Spectroscopic investigations of fluorescence behaviour, role and function of the long-wavelength pigments of Photosystem I (973) 198
Staib, W., see Schadewaldt, P. (992) 115
Stalenhoef, A.F.H., see Mol, M.J.T.M. (1003) 167
Stanley, K.K., see Kütt, H. (1009) 229
Stark, G., see Strässle, M. (980) 305
Stark, H.A., Sharp, C.M., Sutliff, V.E., Martinez, J., Jensen, R.T. and Gardner, J.D.
CCK-JMV-180: a peptide that distinguishes high-affinity cholecystokinin receptors from low-affinity cholecystokinin receptors (1010) 145
Staško, A., see Ondriaš, K. (1003) 238
Steadman, B.L., see Aird, S.D. (997) 211
Steadman, R., Topley, N., Knowlden, J.M., Mackenzie, R.K. and Williams, J.D.
The assessment of relative surface hydrophobicity as a factor involved in the activation of human polymorphonuclear leukocytes by uropathogenic strains of *Escherichia coli* (1013) 21
Steck, T.L., see Padh, H. (982) 271
Steel, C.M. and Hutchins, D.
Soluble factors and cell-surface molecules involved in human B lymphocyte activation, growth and differentiation (989) 133
Steele, L.W., see Butcher, P.A. (980) 50
Steer, C.J., see Lewis, E.N. (986) 161
Stefanelli, C., see Landi, L. (984) 21
Stein, G., see Larson, D.E. (1009) 177
Stein, G.S., see Wolfe, S.A. (1007) 140
Stein, J., see Larson, D.E. (1009) 177
Stein, J.C., see Cooper, D.A. (1008) 92
Stein, J.S., see Wolfe, S.A. (1007) 140
Stein, O., Dabach, Y., Hollander, G., Halperin, G., Oette, K. and Stein, Y.

Cholesterol removal by peritoneal lavage with phospholipid-HDL apoprotein mixtures in hypercholesterolemic hamsters (1006) 144
Stein, O., Haratz, D., Shwartz, R., Berry, E.M. and Stein, Y.
Modification of cellular fatty acid composition of Hep-G_2 cells: effect of antioxidants on cholesterol esterification and secretion (1003) 115
Stein, O., Oette, K., Hollander, G., Dabach, Y., Ben-Naim, M. and Stein, Y.
Divergent fate of unsaturated and saturated ceramides and sphingomyelins in rat liver and cells in culture (1003) 175
Stein, O., see Chajek-Shaul, T. (1001) 316
Stein, O., see Chajek-Shaul, T. (1014) 178
Stein, Y., see Chajek-Shaul, T. (1001) 316
Stein, Y., see Chajek-Shaul, T. (1014) 178
Stein, Y., see Stein, O. (1003) 115
Stein, Y., see Stein, O. (1003) 175
Stein, Y., see Stein, O. (1006) 144
Steiner, A., see Locher, R. (1012) 279
Steiner, M., see Berry, S. (1012) 46
Steiner, M., see Lineberger, B. (1012) 36
Steinhoff, H.-J., Lieutenant, K. and Redhardt, A.
Conformational transition of aquomethemoglobin: intramolecular histidine E7 binding reaction to the heme iron in the temperature range between 220 K and 295 K as seen by EPR and temperature-jump measurements (996) 49
Steinmetz, A., Hocke, G., Saïle, R., Puchois, P. and Fruchart, J.-C.
Influence of serum amyloid A on cholesterol esterification in human plasma (1006) 173
Steinmetz, A., see Saïle, R. (992) 407
Stelzle, M. and Sackmann, E.
Sensitive detection of protein adsorption to supported lipid bilayers by frequency-dependent capacitance measurements and microelectrophoresis (981) 135
Stemerman, M.B., see Ng, C.F. (1004) 332
Stemmer, P., see Hagane, K. (982) 279
Stenesh, J., see Yein, F.S. (1009) 110
Stenson, W.F., see Isaacson, Y. (986) 295
Stephens, T.W. and Schroepfer, Jr., G.J.
Inhibitors of sterol synthesis. 15-Oxygenated steryl ester hydrolase activity of rat liver at neutral and acid pH (1001) 127
Stephenson, M.L., see Hoagland, M.B. (1000) 103
Stępień, K.B., Dworzański, J.P., Bilińska, B., Porębska-Budny, M., Hollek, A.M. and Wilczok, T.
Catecholamine melanins. Structural changes induced by copper ions (997) 49
Steponkus, P.L., see Lynch, D.V. (984) 267
Sternberg, B., Gale, P. and Watts, A.
The effect of temperature and protein content on the dispersive properties of bacteriorhodopsin from *H.halobium* in reconstituted DMPC complexes free of endogenous purple membrane lipids: A freeze-fracture electron microscopy study (980) 117
Sternby, B., see Chen, Q. (1004) 372
Stevens, M.F.G., see Sansom, C.E. (995) 21
Stevens, V.L., see Merrill, Jr., A.H. (1010) 131
Stewart, B.H., Collarini, E.J., Pisoni, R.L. and Christensen, H.N.
Separate and shared lysosomal transport of branched and aromatic dipolar amino acids (987) 145
Stewart, J.M., see Rao, A.G.A. (997) 278
Stick, R.V., see Mortimer, B.C. (1002) 359
Stiehl, A., see Galle, P.R. (1003) 250
Stinson, R.H. and Boggs, J.M.
Interdigitated lipid bilayers of long acyl species of cerebroside sulfate. An X-ray diffraction study (986) 234
Stirpe, F., see Bolognesi, A. (993) 287
Stitt, M., Scheibe, R. and Feil, R.
Response of photosynthetic electron transport and carbon metabolism to a sudden decrease of irradiance in the saturating or the limiting range (973) 241
Stitt, M., see Quick, P. (973) 263
Stitt, M., see Quick, P. (974) 282
Stitt, M., see Quick, W.P. (977) 287
Stiuso, P., see Pulcini, D. (995) 64
Stocchi, V., see Cantoni, O. (1014) 1
Stochaj, U., Dieckhoff, J., Mollenhauer, J., Cramer, M. and Mannherz, H.G.
Evidence for the direct interaction of chicken gizzard 5′-nucleotidase with laminin and fibronectin (992) 385
Stochaj, U., see Risse, G. (994) 258
Stocker, R. and Peterhans, E.
Synergistic interaction between vitamin E and the bile pigments bilirubin and biliverdin (1002) 238
Stokke, O., see Boberg, K.M. (1004) 321
Stolk, J.A., see Schweizer, M.P. (1008) 293
Stoming, T.A., see Codrington, J.F. (1009) 87
Stoming, T.A., see Lanclos, K.D. (1008) 109
Stoppini, M., see Ferri, G. (995) 103
Storch, J., see Trotter, P.J. (982) 131
Storelli, C., see Vilella, S. (984) 188
Störl, J., see Burckhardt, G. (1009) 11
Storto, S., see Arduini, A. (979) 1
Storto, S., see Arduini, A. (999) 203
Storto, S., see Ricci, G. (990) 211
Stowers, D.J., see Kaiserman, H.B. (1008) 23
Strambini, G., see Arduini, A. (999) 203
Strandberg, T.E., Tilvis, R.S. and Miettinen, T.A.
Variations of hepatic cholesterol precursors during altered flows of endogenous and exogenous squalene in the rat (1001) 150
Strange, R., see Hiley, C. (990) 321
Strange, R.C., Howie, A.F., Hume, R., Matharoo, B., Bell, J., Hiley, C., Jones, P. and Beckett, G.J.
The developmental expression of alpha-, mu- and pi-class glutathione *S*-transferases in human liver (993) 186
Strasser, T. and Vogel, M.
Prostaglandin E_2 in the lung lavage fluid of premature newborns before and after surgical or medical closure of a patent ductus arteriosus (1003) 63
Strässle, M., Stark, G., Wilhelm, M., Daumas, P., Heitz, F. and Lazaro, R.
Radiolysis and photolysis of ion channels formed by analogues of gramicidin A with a varying number of tryptophan residues (980) 305
Straub, F.B. and Feuer, G.
concerning 'Adenosine triphosphate. The functional group of actin' (1000) 179
Straub, F.B.
Note on the work of (1000) 179
Strel'chyonok, O.A., see Avvakumov, G.V. (984) 143
Stremmel, W. and Diede, H.E.
Fatty acid uptake by human hepatoma cell lines represents a carrier-mediated uptake process (1013) 218
Stremmel, W., Falbrede, J., Diede, H.E. and Elsing, C.
Cellular influx of sulfobromophthalein by the biliary epithelium carcinoma cell line Sk-Cha-1 reveals kinetic criteria of a carrier-mediated uptake mechanism (1014) 108
Strid, L., see Öblad, M. (975) 267
Strieleman, P.J., see Cooper, D.A. (1008) 92
Strobl, J.S., see Gaido, M.L. (1008) 234
Strömberg, N., see Thurin, J. (1002) 267
Strotmann, H., see Lohse, D. (976) 85
Strotmann, H., see Lohse, D. (976) 94
Strotmann, H., see Minkov, I.B. (973) 7
Strous, G.J., see Van Beurden-Lamers, W.M.O. (990) 232
Stuart, M.C.A., see Frederik, P.M. (979) 275
Stubbs, C.D., Williams, B.W., Boni, L.T., Hoek, J.B., Taraschi, T.F. and Rubin, E.

On the use of *N*-(7-nitrobenz-2-oxa-1,3-diazol-4-yl)phosphatidylethanolamine in the study of lipid polymorphism (986) 89
Studzian, K., see Szmigiero, L. (1008) 339
Sturk, A., Schaap, M.C.L., Prins, A., Ten Cate, J.W. and Van den Bosch, H.
Synthesis of platelet-activating factor by human blood platelets and leucocytes. Evidence against selective utilization of cellular ether-linked phospholipids (993) 148
Styring, S., see Evelo, R.G. (973) 428
Subbaiah, P.V. and Pritchard, P.H.
Molecular species of phosphatidylcholine in familial lecithin–cholesterol acyltransferase deficiency: effect of enzyme supplementation (1003) 145
Subbiah, V., see Sagar, A.J. (995) 144
Subramanian, J., see Bhuyan, A.K. (997) 36
Suchodolova, A.T., see Bresler, V.M. (982) 288
Suckling, C.J., see Suckling, K.E. (1002) 401
Suckling, K.E., Jackson, B., Suffolk, R.A., Houghton, J.D. and Suckling, C.J.
Effects of 6,6-difluorocholestanol and 7,7-difluorocholestanol on hepatic enzymes of cholesterol metabolism (1002) 401
Suenaga, M., Lee, S., Park, N.G., Aoyagi, H., Kato, T., Umeda, A. and Amako, K.
Basic amphipathic helical peptides induce destabilization and fusion of acidic and neutral liposomes (981) 143
Suffolk, R.A., see Suckling, K.E. (1002) 401
Suga, T., see Suzuki, H. (990) 25
Sugama, K., Tanaka, T., Yokohama, H., Negishi, M., Hayashi, H., Ito, S. and Hayaishi, O.
Stimulation of cAMP formation by prostaglandin D_2 in primary cultures of bovine adrenal medullary cells: identification of the responsive population as fibroblasts (1011) 75
Sugano, H., see Iwasaki, M. (992) 1
Sugano, M., see Imaizumi, K. (1005) 253
Sugano, N., see Hibino, Y. (1008) 287
Sugano, S., Okamoto, M., Ikeda, H., Takizawa, N. and Horie, S.
Multiple molecular forms of cytochrome *P*-450_{SCC} purified from bovine corpus luteum mitochondria (994) 235
Sugi, K., Inoue, M. and Morino, Y.
Degradation of plasma bilirubin by a bilirubin oxidase derivative which has a relatively long half-life in the circulation (991) 405
Sugi, K., Inoue, M., Morino, Y. and Sato, T.
Effect of obstructive jaundice on the fate of a nephrophilic organic anion in the rat (987) 217
Sugii, S. and Tsuji, T.
Studies on the binding substances on human erythrocytes for the heat-labile enterotoxin isolated from porcine enterotoxigenic *Escherichia coli* (980) 155
Sugii, S. and Tsuji, T.
Studies on the binding substances on human erythrocytes for the heat-labile enterotoxin isolated from chicken enterotoxigenic *Escherichia coli* (983) 30
Sugimoto, Y., Saito, A., Kusakabe, T., Hori, K. and Koga, K.
Flow of egg white ovalbumin into the yolk sac during embryogenesis (992) 400
Sugio, T., Katagiri, T., Inagaki, K. and Tano, T.
Actual substrate for elemental sulfur oxidation by sulfur:ferric ion oxidoreductase purified from *Thiobacillus ferrooxidans* (973) 250
Sugio, T., see Dou, D. (1009) 83
Sugisaki, K., see Yamakawa, M. (1009) 156
Sugita, Y., see Sato, H. (983) 259
Sugiura, T., see Masuzawa, Y. (1005) 1
Sugiyama, Y., see Okudaira, N.-I. (981) 1
Sugiyama, Y., see Yachi, K. (978) 1
Sukupolvi, S. and Vaara, M.
Salmonella typhimurium and *Escherichia coli* mutants with increased outer membrane permeability to hydrophobic compounds (988) 377
Sullivan, S.M., see Roerdink, F.H. (980) 234
Sumizawa, T., see Yoshimura, A. (992) 307
Summers, P., see Last, J.A. (990) 182
Sun, G.Y., see Sanjanwala, M. (1006) 203
Sundblad, L.-G., Schröder, W.P. and Åkerlund, H.-E.
S-state distribution and redox state of Q_A in barley in relation to luminescence decay kinetics (973) 47
Sundby, C., Larsson, U.K. and Henrysson, T.
Effects of bicarbonate on thylakoid protein phosphorylation (975) 277
Sundler, R., see Wijkander, J. (1010) 78
Sune, A., see Sainte-Marie, J. (982) 265
Superti-Furga, G., Barberis, A., Schreiber, E. and Busslinger, M.
The protein CDP, but not CP1, footprints on the CCAAT region of the γ-globin gene in unfractionated B-cell extracts (1007) 237
Sutherland, C.D., see Williams, R.J. (1003) 213
Sutliff, V.E., see Stark, H.A. (1010) 145
Sutter, W., see Ghishan, F.K. (979) 77
Sutton, C.M. and Botham, K.M.
Bile acid synthesis and intracellular and extracellular cholesterol concentrations in isolated rat hepatocytes: the effect of dietary cholesterol (1001) 210
Suyemitsu, T., Tonegawa, Y. and Ishihara, K.
Amino acid sequence of exogastrula-inducing peptide C from the sea urchin, *Anthocidaris crassispina* (999) 24
Suzuki, H., Yamada, J., Watanabe, T. and Suga, T.
Compartmentation of dicarboxylic acid β-oxidation in rat liver: importance of peroxisomes in the metabolism of dicarboxylic acids (990) 25
Suzuki, H., see Fukazawa, H. (991) 272
Suzuki, H., see Nakazato, Y. (1014) 57
Suzuki, H., see Nishimura, C. (1012) 29
Suzuki, K., see Kodaira, K.-I. (1008) 123
Suzuki, N., see Yamamoto, D. (986) 187
Suzuki, T.
Amino acid sequence of a major globin from the sea cucumber *Paracaudina chilensis* (998) 292
Suzuki, T., Takagi, T. and Ohta, S.
Amino acid sequence of the dimeric hemoglobin (Hb I) from the deep-sea cold-seep clam *Calyptogena soyoae* and the phylogenetic relationship with other molluscan globins (999) 254
Suzuki, T., see Sakurai, I. (985) 101
Suzuki, Y., Morita, I., Ishizaki, Y., Yamane, Y. and Murota, S.-i.
Cadmium stimulates prostaglandin E_2 synthesis in osteoblast-like cells, MC3T3-E1 (1012) 135
Svennerholm, L., Boström, K., Fredman, P., Månsson, J.-E., Rosengren, B. and Rynmark, B.-M.
Human brain gangliosides: developmental changes from early fetal stage to advanced age (1005) 109
Svensson, L.T., see Alexson, S.E.H. (1005) 13
Swaney, J.B. and Orishimo, M.W.
Effects of heparin-induced lipolytic activity on the structure of rat high-density lipoprotein (1002) 338
Swann, D.A., see Gray, M.L. (991) 415
Swarts, H.G.P., see Schuurmans Stekhoven, F.M.A.H. (982) 103
Swartz, H.M., see Chan, H.-C. (1014) 141
Swartz, H.M., see Chen, K. (992) 131
Swartz, H.M., see Hu, H. (1014) 211
Swartz, H.M., see Iannone, A. (991) 90
Sweadner, K.J.
Isozymes of the Na^+/K^+-ATPase (988) 185
Sybesma, C., see Slooten, L. (973) 272
Sychrová, H., Horák, J. and Kotyk, A.
Transport of L-lysine in the fission yeast *Schizosaccharomyces pombe* (978) 203
Sygowski, L.A., see Caputo, C.B. (1012) 299
Sykes, A.G., see Gadsby, P.M.A. (994) 37
Syto, R., see Ramanathan, L. (1007) 283

Szabo, A.G., see Pugh, E.L. (985) 255
Szabo Jr., G., Rédai Jr., I., Bacso, Z., Hevessy, J. and Damjanovich, S.
Light-induced permeabilization and Merocyanine 540 staining of mouse spleen cells (979) 365
Szczepan, E.W., see Goh, C.J. (990) 240
Sze, D., see McMorrow, I. (981) 21
Szmigiero, L. and Studzian, K.
DNA damage and cytotoxicity of nitracrine in cultured HeLa cells (1008) 339
Szolderits, G., Hermetter, A., Paltauf, F. and Daum, G.
Membrane properties modulate the activity of a phosphatidylinositol transfer protein from the yeast, *Saccharomyces cerevisiae* (986) 301

T

Tabacik, C. and Aliau, S.
Cholesterogenesis and cell division in phytohemagglutinin-stimulated human lymphocytes: a comparative study with several inhibitors (1011) 149
Tabas, I., see Khoo, J.C. (1012) 215
Tabcharani, J.A. and Misler, S.
Ca^{2+}-activated K^+ channel in rat pancreatic islet B cells: permeation, gating and blockade by cations (982) 62
Tachibana, M., see Chihara, M. (1012) 5
Tadakuma, T., see Tomita, T. (978) 185
Tadros, M.H., García, A.F., Gad'on, N. and Drews, G.
Characterization of a pseudo-B870 light-harvesting complex isolated from the mutant strain Ala^+Pho^- of *Rhodobacter capsulatus* which contains B800–850-type polypeptides (976) 161
Tae, G.-S., see Vallon, O. (975) 132
Taga, K., see Yoshida, T. (984) 253
Tager, J.M., see Al, B.J.M. (1004) 245
Tagesson, C., see Lindahl, M. (1005) 282
Tahira, S., see Okabe, N. (990) 303
Taira, M., Iizasa, T., Yamada, K., Shimada, H. and Tatibana, M.
Tissue-differential expression of two distinct genes for phosphoribosyl pyrophosphate synthetase and existence of the testis-specific transcript (1007) 203
Tajmir-Riahi, H.-A.
A comparative study of adenylic, guanylic and deoxyguanylic acids and their sodium salts as solid and in solution: structural information and conformational features (1009) 168
Takada, M., see Hanazawa, S. (1012) 57
Takagi, A., see Ikeda, Y. (1003) 254
Takagi, M., see Onji, T. (999) 248
Takagi, T., see Hayashi, Y. (983) 217
Takagi, T., see Suzuki, T. (999) 254
Takahashi, C., see Ohuchi, K. (1003) 9
Takahashi, I., see Hamaguchi, M. (1009) 143
Takahashi, I., see Sakakibara, M. (1007) 334
Takahashi, K., see Ueno, T. (1009) 27
Takahashi, K., see Yoshida, T. (985) 331
Takahashi, T., see Tomita, T. (978) 185
Takahashi, Y. and Satoh, K.
Identification of the photochemically iodinated amino-acid residue on D1-protein in the Photosystem II core complex by peptide mapping analysis (973) 138
Takahashi, Y., see Asami, K. (1010) 49
Takai, T., see Yamamoto, I. (993) 191
Takaichi, S., see Katoh, T. (976) 233
Takamatsu, J., see Hamaguchi, M. (1009) 143
Takamizawa, K., see Umesaki, Y. (1001) 157
Takanami, M., see Kimura, T. (1007) 318
Takaoka, M., see Nishii, M. (990) 138
Takasaki, Y., see Sakakibara, M. (1007) 334
Takashima, S., see Asami, K. (1010) 49
Takashina, S., see Hayashi, M. (977) 62
Takasu, N., Nagasawa, Y., Komiya, I., Shimizu, Y. and Yamada, T.
Cytoplasmic pH in cultured porcine thyroid cells: alkalinization by epidermal growth factor (1012) 117
Takata, K., Horiuchi, S., Araki, N., Shiga, M., Saitoh, M. and Morino, Y.
Scavenger receptor of human monocytic leukemia cell line (THP-1) and murine macrophages for nonenzymatically glycosylated proteins (986) 18
Takata, K., Horiuchi, S. and Morino, Y.
Scavenger receptor-mediated recognition of maleylated albumin and its relation to subsequent endocytic degradation (984) 273
Takata, Y., see Gomi, T. (994) 172
Takegawa, K., Kawasaki, N., Iwahara, S., Yamamoto, K., Tochikura, T., Mikami, B. and Morita, Y.
Primary structure of an N-linked sugar chain derived from glucoamylase of *Rhizopus niveus* (990) 98
Takegawa, K., Miki, S., Jikibara, T. and Iwahara, S.
Purification and characterization of exo-α-D-mannosidase from a *Cellulomonas* sp. (991) 431
Takehara, T., see Hamaguchi, M. (1009) 143
Takemori, S., see Ikushiro, S.-i. (984) 50
Takemori, S., see Kominami, S. (985) 293
Takemoto, J.Y., see Reidl, H.H. (1010) 325
Takemoto, J.Y., see Zhang, L. (987) 171
Takemoto, L., Emmons, T., Granstrom, D. and Jacobs, S.
Antisera to synthetic peptides as probes of structural changes during aging of α-crystallin from the bovine lens (995) 259
Takenobu, Y., see Nishii, M. (990) 138
Takeshige, K., see Kitazono, T. (1013) 152
Takeshige, K., see Kuroki, M. (1012) 103
Takeshita, K., see Naito, M. (985) 147
Takeshita, M., see Shirabe, K. (1008) 189
Takeshita, M., see Yoshida, S. (1004) 239
Taketo, A.
RNA transfection of *Escherichia coli* by electroporation (1007) 127
Taketo, A., see Kodaira, K.-I. (1007) 359
Taketo, A., see Kodaira, K.-I. (1008) 123
Takeuchi, T., see Kikuchi, H. (1009) 283
Takeya, T., see Kimura, T. (1007) 318
Takikawa, H., Sano, N., Ohki, H. and Yamanaka, M.
Comparison of biliary excretion and metabolism of lithocholic acid and its sulfate and glucuronide conjugates in rats (1004) 147
Takizawa, N., see Sugano, S. (994) 235
Tal, D.M., Yanuck, M.D., Van Hall, G. and Karlish, S.J.D.
Identification of Na^+/K^+-ATPase inhibitors in bovine plasma as fatty acids and hydrocarbons (985) 55
Talbot, I.C., see Chester, K.A. (1009) 297
Talesa, V., Uotila, L., Koivusalo, M., Principato, G., Giovannini, E. and Rosi, G.
Isolation of glyoxalase II from two different compartments of rat liver mitochondria. Kinetic and immunochemical characterization of the enzymes (993) 7
Tallandini, L., see Salvato, B. (998) 14
Tam, E.K., see Pison, U. (992) 251
Tamai, N., see Mimuro, M. (973) 153
Tamai, N., see Shimada, K. (975) 72
Tamaki, M., see Sakata, T. (1007) 124
Tamaki, T., see Kitagawa, T. (987) 235
Tamiya, N., Yusa, T., Yamaguchi, Y., Tsukifuji, R., Kuroiwa, N.,

Moriyama, Y. and Fujimura, S.
Co-purification of thymidylate kinase and cytosolic thymidine kinase from human term placenta by affinity chromatography (995) 28
Tamiya-Koizumi, K., Umekawa, H., Yoshida, S., Ishihara, H. and Kojima, K.
A novel phospholipase A_2 associated with nuclear matrix: stimulation of the activity and modulation of the Ca^{2+} dependency by polyphosphoinositides (1002) 182
Tamiya-Koizumi, K., see Yoshida, S. (1007) 61
Tamkun, J.W., see Scott, M.P. (989) 25
Tampé, R., Robitzki, A. and Galla, H.-J.
Interaction between glycophorin and a spin-labeled cholesterol analogue in reconstituted dimyristoylphosphatidylcholine bilayer vesicles (982) 41
Tamura, N., Ikeuchi, M. and Inoue, Y.
Assignment of histidine residues in D1 protein as possible ligands for functional manganese in photosynthetic water-oxidizing complex (973) 281
Tamura, N., Inoue, Y. and Cheniae, G.M.
Photoactivation of the water-oxidizing complex in Photosystem II membranes depleted of Mn, Ca and extrinsic proteins. II. Studies on the functions of Ca^{2+} (976) 173
Tamura, N., see Seibert, M. (974) 185
Tamura, T., see Ohuchi, K. (1013) 86
Tamura-Lis, W., see Cunningham, B.A. (984) 109
Tan, S. and Ho, K.-K.
Purification of an acidic plastocyanin from *Microcystis aeruginosa* (973) 111
Tanaka, A., Chance, B. and Wehrli, S.
Time-resolved magnetic resonance spectroscopic study of freeze-trapped yeast (993) 280
Tanaka, A., see Kawasaki, N. (996) 30
Tanaka, K., see Mukai, K. (993) 168
Tanaka, K.R., see Lachant, N.A. (994) 81
Tanaka, M., Yamakawa, M., Watahiki, M., Yamamoto, M. and Nakashima, K.
Isolation of a novel prolactin-like cDNA clone from bovine placenta: occurrence of new family members (1008) 193
Tanaka, M., see Kitagawa, T. (980) 100
Tanaka, M., see Tanaka-Yamamoto, T. (1009) 151
Tanaka, M., see Yamakawa, M. (1009) 156
Tanaka, N., see Abei, M. (995) 279
Tanaka, N., see Nishimura, C. (1012) 29
Tanaka, T., see Katsurada, A. (1004) 103
Tanaka, T., see Katsurada, A. (1006) 104
Tanaka, T., see Sakiyama, H. (990) 156
Tanaka, T., see Sugama, K. (1011) 75
Tanaka-Yamamoto, T., Tanaka, M., Ohno, K., Sato, W., Horai, S. and Ozawa, T.
Specific amplification of deleted mitochondrial DNA from a myopathic patient and analysis of deleted region with S_1 nuclease (1009) 151
Tancini, B., see Rosato, N. (996) 195
Taneoka, Y., see Ohmori, D. (996) 166
Tang, B.L., Teo, C.C., Sim, K.Y., Ng, M.L. and Kon, O.L.
Cytostatic effect of antiestrogens in lymphoid cells: relationship to high affinity antiestrogen-binding sites and cholesterol (1014) 162
Taniguchi, H., see Sata, H. (991) 388
Taniguchi, S., see Mori, H. (1003) 98
Taniguchi, Y., see Makimoto, S. (996) 233
Tanimoto, T., see Kawasaki, N. (996) 30
Tanisho, S., Kamiya, N. and Wakao, N.
Hydrogen evolution of *Enterobacter aerogenes* depending on culture pH: mechanism of hydrogen evolution from NADH by means of membrane-bound hydrogenase (973) 1
Tanner, L.I., see Kitagawa, K. (1014) 83
Tano, T., see Dou, D. (1009) 83
Tano, T., see Sugio, T. (973) 250
Tanswell, A.K., see Olson, D.M. (1003) 327
Tanuma, S. and Endo, H.
Mono(ADP-ribosyl)ation of Gi by eukaryotic cysteine-specific mono(ADP-ribosyl)transferase attenuates inhibition of adenylate cyclase by epinephrine (1010) 246
Tao, B.Y., Reilly, P.J. and Robyt, J.F.
Detection of a covalent intermediate in the mechanism of action of porcine pancreatic α-amylase by using ^{13}C nuclear magnetic resonance (995) 214
Tao, M., see Cheng, H.-F. (998) 271
Tappel, A.L., see Gomez, Jr., B. (979) 20
Tappel, A.L., see Motchnik, P.A. (993) 27
Taraschi, T.F., see Stubbs, C.D. (986) 89
Tarasiuk, J., Frézard, F., Garnier-Suillerot, A. and Gattegno, L.
Anthracycline incorporation in human lymphocytes. Kinetics of uptake and nuclear concentration (1013) 109
Taremi, S.S., Violette, C.A. and Frank, H.A.
Transient optical spectroscopy of single crystals of the reaction center from *Rhodobacter sphaeroides* wild-type 2.4.1 (973) 86
Tarrant, T.M., see Rillema, J.A. (1014) 78
Tartar, A., see Saïle, R. (992) 407
Tas, P.W.L., Kress, H.-G. and Koschel, K.
Volatile anesthetics inhibit the ion flux through Ca^{2+}-activated K^+ channels of rat glioma C6 cells (983) 264
Tasseron-de Jong, J., Aker, J., Den Dulk, H., Van de Putte, P. and Giphart-Gassler, M.
Cytosine methylation in the *Eco*RI site of active and inactive herpesvirus thymidine kinase promoters (1008) 62
Tasseron-de Jong, J.G., Den Dulk, H., Van de Putte, P. and Giphart-Gassler, M.
De novo methylation as major event in the inactivation of transfected herpesvirus thymidine kinase genes in human cells (1007) 215
Tasumi, M., see Ohta, M. (1011) 33
Tatibana, M., see Taira, M. (1007) 203
Tauc, M., see Merot, J. (978) 134
Tavares, N.J., see Karczmar, G.S. (1012) 121
Tavasolli, M., see McNerney, R. (1009) 185
Tayarani, I., Cloëz, I., Lefauconnier, J.-M. and Bourre, J.-M.
Sodium-dependent high-affinity uptake of taurine by isolated rat brain capillaries (985) 168
Taylor, J.W., see Vaughn, Jr., J.B. (999) 135
Tazuya, K., Yamada, K. and Kumaoka, H.
Incorporation of histidine into the pyrimidine moiety of thiamin in *Saccharomyces cerevisiae* (990) 73
Tchouatcha-Tchouassom, J.C., Julliard, J.H. and Roux, B.
Isolation and characterisation of five histone H1 subtypes from adult rat liver (1009) 121
Tecce, M.F., see Conti, R. (1008) 315
Teissié, J., see Blangero, C. (981) 295
Teissié, J., see Volker, T.T. (984) 243
Tejwani, R., see Schumm, D.E. (1009) 54
Teller, G., see Kupferberg, A. (1013) 231
Ten Cate, J.W., see Sturk, A. (993) 148
Tenchov, B.G., see Koynova, R.D. (980) 377
Teneberg, S., see Thurin, J. (1002) 267
Tenen, D.G., see Senger. D.R. (996) 43
Tenenhouse, H.S., Klugerman, A.H. and Neal, J.L.
Effect of phosphonoformic acid, dietary phosphate and the *Hyp* mutation on kinetically distinct phosphate transport processes in mouse kidney (984) 207
Tenenhouse, H.S., see Boneh, A. (1012) 308
Teng, C.-M., Hung, M.-L., Huang, T.-F. and Ouyang, C.
Triwaglerin: a potent platelet aggregation inducer purified from *Trimeresurus wagleri* snake venom (992) 258

Teng, C.-M., Kuo, S.-C., Ko, F.-N., Lee, J.-C., Lee, L.-G., Chen, S.-C. and Huang, T.-F.
Antiplatelet actions of panaxynol and ginsenosides isolated from ginseng (990) 315
Teo, C.C., see Tang, B.L. (1014) 162
Terada, H., see Kora, S. (985) 286
Terao, J.
Stabilization of phosphatidylethanolamine hydroperoxides in human plasma (1003) 221
Teraoka, H., see Sakata, T. (1007) 124
Terlecki, G., see Dąbrowska, A. (980) 357
Termine, E., see Cheillan, F. (999) 233
Teslenko, L., see Sorkin, A. (1011) 88
Thalhammer, T., Peterlik, M. and Graf, J.
Membrane potential measurements in isolated rat liver plasma membrane vesicles: Effect of transmembrane ion concentration gradients (979) 371
Thedinga, K.H., see IJzerman, A.P. (979) 153
Theilmann, L., see Galle, P.R. (1003) 250
Thelen, R., see Lohse, D. (976) 85
Thim, L., see Rose, K. (998) 297
Thissen, J., see Komuniecki, R. (975) 127
Thiyagarajan, P., see Winter, R. (982) 85
Thomas, C.M., see Shingler, V. (1007) 301
Thomas, D., see Xu, Z.-F. (998) 251
Thomas, D.D., see Ervasti, J.M. (986) 70
Thomas, D.E., see Cornell, B.A. (985) 229
Thomas, G., see Pepin, D. (1006) 52
Thomas, G.J. and Davies, M.
The potential role of human kidney cortex cysteine proteinases in glomerular basement membrane degradation (990) 246
Thomas, P.D. and Poznansky, M.J.
Curvature and composition-dependent lipid asymmetry in phosphatidylcholine vesicles containing phosphatidylethanolamine and gangliosides (978) 85
Thomas, P.J., Wendelburg, B.E., Venuti, S.E. and Helmkamp, Jr., G.M.
Mature rat testis contains a high molecular weight species of phosphatidylinositol transfer protein (982) 24
Thomas, S.M., Gebicki, J.M. and Dean, R.T.
Radical initiated α-tocopherol depletion and lipid peroxidation in mitochondrial membranes (1002) 189
Thomas, V., see Jameson, D.M. (994) 187
Thomas, V., see Jullian, C. (997) 206
Thomé, F., see Roques, P. (1009) 99
Thompson, A., see Lambert, C. (993) 12
Thompson, Jr., G.A., see Horváth, I. (1002) 409
Thompson, K.A. and Kleinzeller, A.
2-Deoxy-D-glucose accumulation in adipocytes: apparent transport discrimination between 2-deoxy-D-glucose and 3-*O*-methyl-D-glucose (1011) 58
Thompson, K.A., see Widdas, W.F. (979) 221
Thompson, P., see Lindsey, G.G. (1009) 257
Thompson, T.E., see Bar, L.K. (983) 109
Thompson, T.E., see Rock, P. (979) 347
Thompson, W.A., see Porra, R.J. (975) 384
Thomson, A.B.R., Keelan, M., Garg, M. and Clandinin, M.T.
Evidence for critical-period programming of intestinal transport function: variations in the dietary ratio of polyunsaturated to saturated fatty acids alters ontogeny of the rat intestine (1001) 302
Thomson, A.B.R., see Garg, M.L. (1006) 127
Thomson, A.J., see Gadsby, P.M.A. (994) 37
Thomson, B.M., Atkinson, S.J., McGarrity, A.M., Hembry, R.M., Reynolds, J.J. and Meikle, M.C.
Type I collagen degradation by mouse calvarial osteoblasts stimulated with 1,25-dihydroxyvitamin D-3: evidence for a plasminogen-plasmin-metalloproteinase activation cascade (1014) 125
Thomson, J.A. and Augusteyn, R.C.
On the structure of α-crystallin: Construction of hybrid molecules and homopolymers (994) 246
Thomson, K.S., see Nilsson, A. (991) 296
Thorburn, G.D., see Hey, A.W. (997) 27
Thorndyke, M.C., see Thwaites, D.T. (999) 217
Thurin, J., Brodin, T., Bechtel, B., Jovall, P.-Å., Karlsson, H., Strömberg, N., Teneberg, S., Olov Sjögren, H. and Karlsson, K.-A.
Novel isoglobo-neolacto-series hybrid glycolipid detected by a monoclonal antibody is a rat colon tumor-associated antigen (1002) 267
Thurnauer, M.C., see Feezel, L.L. (974) 149
Thwaites, D.T., Young, J., Thorndyke, M.C. and Dimaline, R.
The isolation and chemical characterization of a novel vasoactive intestinal peptide-related peptide from a teleost fish, the cod, *Gadus morhua* (999) 217
Tian, W.-X., Wang, Y.-s. and Hsu, R.Y.
Affinity labeling of chicken liver fatty acid synthase with chloroacetyl-CoA and bromopyruvate (998) 310
Tianhui, X. and Chiao, J.S.
Purification and properties of DAHP synthase from *Nocardia mediterranei* (991) 1
Tianhui, X. and Chiao, J.S.
Regulation of the biosynthetic pathway of aromatic amino acids in *Nocardia mediterranei* (991) 6
Tiedge, H. and Schäfer, G.
Symmetry in F_1-type ATPases (977) 1
Tiffany, C.W., see Al, B.J.M. (1004) 245
Tijburg, L.B.M., Geelen, M.J.H. and Van Golde, L.M.G.
Regulation of the biosynthesis of triacylglycerol, phosphatidylcholine and phosphatidylethanolamine in the liver (1004) 1
Tijssen, K., see Boegheim, J.P.J. (1012) 237
Tilcock, C., Chin, R., Veiro, J., Cullis, P. and Fisher, D.
Detection of surface charge-related properties in model membrane systems by aqueous two-phase partition (986) 167
Tilcock, C., Cullis, P., Dempsey, T., Youens, B.N. and Fisher, D.
Aqueous two-phase polymer partitioning of lipid vesicles of defined size and composition (979) 208
Tillack, T.W., see Rock, P. (979) 347
Tilvis, R.S., see Strandberg, T.E. (1001) 150
Timmons, R.B., see Ubom, G.A. (997) 1
Timpman, K., see Freiberg, A. (973) 93
Tipton, K.F., see Couée, I. (995) 97
Tiribelli, C., see Miccio, M. (981) 115
Tirmenstein, M.A. and Reed, D.J.
Role of a partially purified glutathione *S*-transferase from rat liver nuclei in the inhibition of nuclear lipid peroxidation (995) 174
Tiruppathi, C., see Miyamoto, Y. (978) 25
Tishkov, V.I., see Asryants, R.A. (997) 159
Tkachuk, V.A., see Korichneva, I.L. (1014) 173
Tobita, T., see Akama, K. (1008) 198
Tocanne, J.F., see Sautereau, A.M. (978) 276
Tochikura, T., see Takegawa, K. (990) 98
Toda, G., see Yachi, K. (978) 1
Toffano, G., see Mietto, L. (1013) 1
Tohmatsu, T., Nakashima, S. and Nozawa, Y.
Evidence for Ca^{2+} mobilizing action of arachidonic acid in human platelets (1012) 97
Tohmatsu, T., Nishida, A., Nagao, S., Nakashima, S. and Nozawa, Y.
Inhibitory action of cyclic AMP on inositol 1,4,5-trisphosphate-induced Ca^{2+} release in saponin-permeabilized platelets (1013) 190
Tohoyama, H., see Inouhe, M. (993) 51
Tojo, H., see Sakata, T. (1007) 124
Tokunaga, K., see Kageyama, H. (1008) 255
Tokunaga, K., see Yoda, K. (1009) 194
Tolar, M., see Zemková, H. (986) 146
Tollersrud, O.K., Kvalvaag, A.H. and Helgeland, L.

Biosynthesis and clearance of prothrombin in warfarin-treated rats (1010) 35
Tomasi, A., see Botti, B. (992) 327
Tomasi, A., see Iannone, A. (991) 90
Tomita, K., see Yoshimura, S. (981) 69
Tomita, T., Watanabe, M., Takahashi, T., Kumai, K., Tadakuma, T. and Yasuda, T.
Temperature-sensitive release of adriamycin, an amphiphilic antitumor agent, from dipalmitoylphosphatidylcholine-cholesterol liposomes (978) 185
Tomlinson, S., see Lynch, A.M. (1012) 166
Tommassen, J., see Benz, R. (981) 8
Tommassen, J., see Bosch, D. (979) 69
Tommassen, J., see De Cock, H. (985) 313
Tomme, P., see Mischak, H. (990) 1
Tomosawa, T., see Sakiyama, H. (990) 156
Tonegawa, Y., see Suyemitsu, T. (999) 24
Tonomura, B., see Kakitani, M. (996) 76
Topley, N., see Steadman, R. (1013) 21
Tornaletti, S., Russo, P., Parodi, S. and Pedrini, A.M.
Studies on DNA binding of caffeine and derivatives: evidence of intercalation by DNA-unwinding experiments (1007) 112
Torres, J.F. and Lönnroth, I.
Production, purification and characterization of *Clostridium difficile* toxic proteins different from toxin A and from toxin B (998) 151
Torrisi, M.R., see Pavan, A. (978) 158
Torti, M., see Sinigaglia, F. (984) 225
Tortora, P., see Burlini, N. (1014) 153
Tortorella, S., see Carelli, V. (991) 25
Tosh, D., Alberti, K.G.M.M. and Agius, L.
Clofibrate induces carnitine acyltransferases in periportal and perivenous zones of rat liver and does not disturb the acinar zonation of gluconeogenesis (992) 245
Tosi, L., see Aniello, F. (1008) 31
Tóth, M., see Asbóth, G. (1002) 101
Totsuka, M., see Kaminogawa, S. (998) 50
Tournier, J.-F., see Favre, G. (1013) 118
Touzel, J.-P., see Chartier, F. (1008) 309
Tow, J.P., see Barron, J.T. (976) 42
Towner, R.A., Brauer, M., Janzen, E.G. and Ling, M.-f.
In vivo and in vitro ^{31}P-NMR spectroscopy of rat liver treated with halocarbons (993) 92
Toyoda, H., Himeno, S.-i. and Imura, N.
The regulation of glutathione peroxidase gene expression relevant to species difference and the effects of dietary selenium manipulation (1008) 301
Toyoshima, Y., see Miyazaki, A. (975) 142
Tozuka, M., see Fidge, N. (1003) 84
Tozzi, M.G., see Del Corso, A. (993) 116
Trachsel, H., see Mandel, T. (1007) 80
Tran, K., see Chan, A.C. (1005) 265
Travis, J., see Potempa, J. (993) 301
Treacy, G.B., Shaw, D.C., Griffiths, M.E. and Jeffrey, P.D.
Purification of a marsupial insulin: amino-acid sequence of insulin from the Eastern grey kangaroo *Macropus giganteus* (990) 263
Trejdosiewicz, L.K., see Shires, S.E. (1002) 74
Trentesaux, C., Gérard, B., Mayeux, P., Jeannesson, P., Jacquot, R. and Jardillier, J.-C.
Differentiating activity of adriamycin in human erythroleukemic cells: effect on globin and heme synthesis (1012) 161
Trenti, T., see Masini, A. (1014) 133
Triantaphylides, C., see Rangheard, M.-S. (1004) 20
Triggiani, M. and Chilton, F.H.
Influence of immunologic activation and cellular fatty acid levels on the catabolism of platelet-activating factor within the murine mast cell (PT-18) (1006) 41
Trincone, A., see Lanzotti, V. (1001) 31
Trincone, A., see Lanzotti, V. (1002) 398
Trincone, A., see Lanzotti, V. (1004) 44
Trissl, D., see Keller, F. (982) 89
Tritthart, H.A., see Schreibmayer, W. (986) 172
Troly, M., see Maret, A. (996) 254
Trommer, W.E., see Graupe, K. (999) 176
Trommer, W.E., see Wilder, R.T. (997) 65
Trotta, P.P., see Ramanathan, L. (1007) 283
Trotter, P.J. and Storch, J.
3-[*p*-(6-Phenyl)-1,3,5-hexatrienyl]phenylpropionic acid (PA-DPH): characterization as a fluorescent membrane probe and binding to fatty acid binding proteins (982) 131
Truscott, T.G., see Andreoni, A. (990) 190
Truscott, T.G., see Lambert, C. (993) 12
Tsai, A.-l., Hsu, M.-J. and Wu, K.K.
Characterization of the interaction between prostacyclin and human serum albumin using a fluorescent analogue, 2,6-dichloro-4-aminophenol iloprost (993) 74
Tsanev, R., see Avramova, Z. (1007) 109
Tschesche, H., see Mehlich, A. (996) 23
Tse, C.-M. and Young, J.D.
Passive and carrier-mediated permeation of different nucleosides through the reconstituted nucleoside transporter (985) 343
Tse, C.A., see Scott, G.K. (1010) 160
Tso, P., see Nutting, D. (1004) 357
Tsou, C.-L., see Wu, H. (997) 78
Tsuchiya, T., see Sakai, Y. (973) 450
Tsuda, M., see Sakai, Y. (973) 450
Tsui, L., see Alam, R. (1004) 292
Tsuji, H., Ogawa, T., Bando, N. and Sasaoka, K.
Stereospecificity of NAD(P)H oxidation catalyzed by 4-aminobenzoate hydroxylase from *Agaricus bisporus* (991) 380
Tsuji, T., see Sugii, S. (980) 155
Tsuji, T., see Sugii, S. (983) 30
Tsukamoto, I. and Kojo, S.
Effect of colchicine and vincristine on DNA synthesis in regenerating rat liver (1009) 191
Tsukifuji, R., see Tamiya, N. (995) 28
Tsunasawa, S. and Shichi, H.
The amino acid sequence of S-antigen: N-terminus and uveitogenic peptides (994) 191
Tsuprun, V.L., see Shatilov, V.R. (995) 17
Tsurufuji, S., see Ohuchi, K. (1003) 9
Tsurufuji, S., see Ohuchi, K. (1013) 86
Tsuruta, Y., see Sakata, T. (1007) 124
Tulloch, A.P., see Jeffrey, K.R. (986) 241
Tumminia, S.J., Koretz, J.F. and Landau, J.V.
Hydrostatic pressure studies of native and synthetic thick filaments: in vitro myosin aggregates at pH 7.0 with and without C-protein (999) 300
Tümmler, B., see Boggs, J.M. (985) 199
Tümmler, B., see Wang, H.-Y. (985) 182
Turck, C.W., see Kissel, J.A. (1006) 227
Turk, D., see Križaj, I. (999) 198
Turk, J., Wolf, B.A., Easom, R.A., Hughes, J.H. and McDaniel, M.L.
Arachidonic acid metabolism in isolated pancreatic islets. V. The enantiomeric composition of 12-hydroxy-5,8,10,14-eicosatetraenoic acid indicates synthesis by a 12-lipoxygenase rather than a monooxygenase (1001) 16
Turko, I.V., Adamovich, T.B., Kirillova, N.M., Usanov, S.A. and Chashchin, V.L.
Cross-linking studies of the cholesterol hydroxylation system from bovine adrenocortical mitochondria (996) 37
Turner, M.R. and Lumb, R.H.
Synthesis of platelet activating factor by tissues from the rainbow trout, *Salmo gairdneri* (1004) 49

Tusov, V.B., see Stahl, U. (973) 198
Twining, S.S., Wilson, P.M. and Hatchell, D.L.
Characterization of corneal proteoglycans under vitamin A deficiency (992) 181
Tychowiecka, I., see Hinsch, K.-D. (1013) 60
Tytgat, G.N.J., see Groen, A.K. (1006) 179
Tytgat, J., see Nilius, B. (1014) 259

U

Ubom, G.A., Hunt, J.B. and Timmons, R.B.
Spin-labeled analogues of ATP, ADP and AMP: substitutes for normal nucleotides in biochemical systems (997) 1
Uchida, H., see Ohki, R. (1009) 94
Uchida, K., Mitsui, M. and Kawakishi, S.
Monooxygenation of *N*-acetylhistamine mediated by L-ascorbate (991) 377
Uchida, S., see Yoneda, Y. (1012) 74
Uda, M., see Katsu, T. (983) 135
Ueda, I., see Kaminoh, Y. (987) 63
Ueda, I., see Yokono, S. (982) 300
Ueda, I., see Yoshida, T. (979) 287
Ueda, I., see Yoshida, T. (984) 253
Ueda, I., see Yoshida, T. (985) 331
Ueda, S. and Okada, Y.
Acid secretagogues induce Ca^{2+} mobilization coupled to K^+ conductance activation in rat parietal cells in tissue culture (1012) 254
Uedelhoven, W.M., see Lorenz, R.L. (993) 259
Ueno, K., see Kobayashi, A. (1009) 244
Ueno, T., Takahashi, K., Matsuguchi, T., Ikejiri, K., Endo, H. and Yamamoto, M.
Multiple polyadenylation sites in a large 3′-most exon of the rat insulin-like growth factor II gene (1009) 27
Ujec, E., see Zemková, H. (986) 146
Uji, Y., see Maekawa, S. (993) 199
Ullrich, K.J., see Fritzsch, G. (978) 249
Ulmann, L., see Hagve, T.-A. (1004) 143
Umashankar, , see Pandya, K.P. (992) 23
Umbach, A., see Larson, E.M. (973) 78
Umeda, A., see Suenaga, M. (981) 143
Umeda, M., see Naito, M. (985) 147
Umeda, M., see Sata, H. (991) 388
Umek, R.M., Linskens, M.H.K., Kowalski, D. and Huberman, J.A.
New beginnings in studies of eukaryotic DNA replication origins (1007) 1
Umekawa, H., see Tamiya-Koizumi, K. (1002) 182
Umesaki, Y. and Ohara, M.
Factors regulating the expression of the neutral glycolipids in the mouse small intestinal mucosa (1001) 163
Umesaki, Y., Takamizawa, K. and Ohara, M.
Structural and compositional difference in the neutral glycolipids between epithelial and non-epithelial tissue of the mouse small intestine (1001) 157
Unemoto, T., see Hayashi, M. (977) 62
Unligil, P., see Froissart, P. (1002) 376
Unterberg, C., see Börchers, T. (1002) 54
Unzeta, M., see Balsa, M.D. (992) 140
Uodome, N., see Onji, T. (999) 248
Uotila, L., see Talesa, V. (993) 7
Urabe, T., see Kudo, Y. (978) 313
Urashima, T., Saito, T., Nishimura, J. and Ariga, H.
New galactosyllactose containing α-glycosidic linkage isolated from ovine (*Booroola dorset*) colostrum (992) 375
Urayama, O., see Satoh, K. (994) 104
Urban, J.P.G. and Bayliss, M.T.
Regulation of proteoglycan synthesis rate in cartilage in vitro: influence of extracellular ionic composition (992) 59
Urban, P.F., see Kupferberg, A. (1013) 231
Urbaneja, M.-A. and Chapman, D.
The binding of phosphorylcholine-carrying antigens to the anti-phosphorylcholine monoclonal antibody TEPC 15. A fluorescence spectroscopic study (998) 85
Urry, D.W., see Killian, J.A. (978) 341
Ursini, F., see Zhang, L. (1006) 140
Usagawa, T., see Yoshimura, A. (992) 307
Usanov, S.A., Honkakoski, P., Lang, M.A., Pasanen, M., Pelkonen, O. and Raunio, H.
Comparison of the immunochemical properties of human placental and bovine adrenal cholesterol side-chain cleavage enzyme complex (998) 189
Usanov, S.A., see Adamovich, T.B. (996) 247
Usanov, S.A., see Turko, I.V. (996) 37
Ushiyama, K., see Satoh, K. (994) 104
Usui, K., see Kitagawa, S. (1011) 117
Usui, S. and Yu, C.-A.
Purification and properties of isopenicillin N epimerase from *Streptomyces clavuligerus* (999) 78
Utsumi, H., see Murayama, J.-I. (999) 273
Utsumi, H., see Naito, M. (985) 147
Utsumi, J., Yamazaki, S., Kawaguchi, K., Kimura, S. and Shimizu, H.
Stability of human interferon-β1: oligomeric human interferon-β1 is inactive but is reactivated by monomerization (998) 167

V

Vaara, M., see Sukupolvi, S. (988) 377
Vaca, C.E. and Harms-Ringdahl, M.
Interaction of lipid peroxidation products with nuclear macromolecules (1001) 35
Vacca, A., see Maroder, M. (1009) 188
Vaes, G., see Lefebvre, V. (992) 355
Vagabova, O.I., see Katz, E.Y. (976) 121
Valaitis, A.P., Foe, L.G., Kwiatkowska, D., Latshaw, S.P. and Kemp, R.G.
The sites of phosphorylation of rabbit brain phosphofructo-1-kinase by cyclic AMP-dependent protein kinase (995) 187
Valembois, P., see Roch, P. (983) 193
Valencia, A., Pestaña, A. and Cano, A.
Spectroscopical studies on the structural organization of the lectin discoidin I: analysis of sugar- and calcium-binding activities (990) 93
Valenzuela, M.R.L., see Doetsch, P.W. (1007) 309
Vallari, D.S., Record, M., Smith, Z.L. and Snyder, F.
O-alkyl-*O*-methylglycerophosphocholine, an antineoplastic lipid, undergoes spontaneous redistribution between biological membranes prepared from HL-60 cells (1006) 250
Vallette, G., Vranckx, R., Martin, M.-E., Benassayag, C. and Nunez, E.A.
Conformational changes in rodent and human α-fetoprotein: influence of fatty acids (997) 302
Vallon, O., Tae, G.-S., Cramer, W.A., Simpson, D., Hoyer-Hansen, G. and Bogorad, L.

Visualization of antibody binding to the photosynthetic membrane: the transmembrane orientation of cytochrome *b*-559 (975) 132
Vallon, O., see Simpson, D.J. (975) 164
Valter, S.N., see Bresler, V.M. (982) 288
Valverde, I., see Malaisse, W.J. (1013) 133
Vamecq, J., see Veitch, K. (1006) 335
Van Aken, W.G., see Van Buul-Wortelboer, M.F. (1011) 129
Van Amerongen, A., Demel, R.A., Westerman, J. and Wirtz, K.W.A.
Transfer of cholesterol and oxysterol derivatives by the nonspecific lipid transfer protein (sterol carrier protein 2): a study on its mode of action (1004) 36
Van Amerongen, A., Van Noort, M., Van Beckhoven, J.R.C.M., Rommerts, F.F.G., Orly, J. and Wirtz, K.W.A.
The subcellular distribution of the nonspecific lipid transfer protein (sterol carrier protein 2) in rat liver and adrenal gland (1001) 243
Van Amerongen, H., see Matthijs, H.C.P. (975) 185
Van Beckhoven, J.R.C.M., see Van Amerongen, A. (1001) 243
Van Belle, H., see Missiaen, L. (990) 40
Van Belzen, R. and Albracht, S.P.J.
The pathway of electron transfer in NADH:Q oxidoreductase (974) 311
Van Beurden-Lamers, W.M.O., Spee-Brand, R., Dekker, J. and Strous, G.J.
Sulphation causes heterogeneity of gastric mucins (990) 232
Van Bilsen, M., see De Groot, M.J.M. (1006) 111
Van Buul-Wortelboer, M.F., Brinkman, H.-J.M., Reinders, J.H., Van Aken, W.G. and Van Mourik, J.A.
Polar secretion of von Willebrand factor by endothelial cells (1011) 129
Vance, D.E., see Ridgway, N.D. (1004) 261
Vance, D.E., see Sanghera, J.S. (1003) 284
Vance, J.E.
The use of newly synthesized phospholipids for assembly into secreted hepatic lipoproteins (1006) 59
Van Dam, K., see Rutgers, M. (973) 302
Van Dam, K., see Rutgers, M. (977) 142
Van Deenen, L.L.M., see Middelkoop, E. (978) 241
Van den Bergh, F., see Bontemps, F. (997) 131
Van den Berghe, G., see Bontemps, F. (997) 131
Van den Bosch, H., see Hardeman, D. (1006) 1
Van den Bosch, H., see Sturk, A. (993) 148
Van den Bosch, L., De Smedt, H. and Borghgraef, R.
Characteristics of Na^+-dependent hexose transport in OK, an established renal epithelial cell line (979) 91
Van Den Bosch, L., see De Smedt, H. (1012) 171
Vandenbranden, S., see Slooten, L. (975) 148
Vandenbranden, S., see Slooten, L. (976) 150
Van den Broek, P.J.A., see Schuddemat, J. (986) 290
Van den Broek, P.J.A., see Schuddemat, J. (1010) 191
Van den Oetelaar, P.J.M. and Hoenders, H.J.
Folding–unfolding and aggregation–dissociation of bovine α-crystallin subunits; evidence for unfolding intermediates of the αA subunits (995) 91
Van den Oetelaar, P.J.M., De Man, B.M. and Hoenders, H.J.
Protein folding and aggregation studied by isoelectric focusing across a urea gradient and isoelectric focusing in two dimensions (995) 82
Van den Steen, P., see Heirwegh, K.P.M. (995) 151
Van de Putte, P., see Tasseron-de Jong, J. (1008) 62
Van de Putte, P., see Tasseron-de Jong, J.G. (1007) 215
Van der Goot, F., Ripoche, P. and Corman, B.
Determination of solute reflection coefficients in kidney brush-border membrane vesicles by light scattering: influence of the refractive index (979) 272
Van der Goot, F.G., Podevin, R.-A. and Corman, B.J.
Water permeabilities and salt reflection coefficients of luminal, basolateral and intracellular membrane vesicles isolated from rabbit kidney proximal tubule (986) 332
Van der Gulden, H.M.L., see Rutgers, M. (973) 302
Van der Hart, J.M., see Duysens, L.N.M. (1000) 395
Van der Hijden, H.T.W.M. and De Pont, J.J.H.H.M.
Cation sidedness in the phosphorylation step of Na^+/K^+-ATPase (983) 142
Van der Hijden, H.T.W.M., Schuurmans Stekhoven, F.M.A.H. and De Pont, J.J.H.H.M.
Sidedness of the effect of amines on the steady-state phosphorylation level of reconstituted Na^+/K^+-ATPase (987) 75
Van der Hoek, E.E., see Middelkoop, E. (978) 241
Van der Hoek, E.E., see Middelkoop, E. (981) 151
Vander Jagt, D.L., see Queen, S.A. (996) 160
Vanderkooi, J.M. and Berger, J.W.
Excited triplet states used to study biological macromolecules at room temperature (976) 1
Van der Ley, P., see Benz, R. (981) 8
Van der Mei, H.C., Noordmans, J. and Busscher, H.J.
Molecular surface characterization of oral streptococci by Fourier transform infrared spectroscopy (991) 395
Van der Staay, G.W.M., Matthijs, H.C.P. and Mur, L.R.
Phosphorylation and dephosphorylation of membrane proteins from the prochlorophyte *Prochlorothrix hollandica* in fixed redox states (975) 317
Van der Staay, G.W.M., see Matthijs, H.C.P. (975) 185
Van der Vusse, G.J., see De Groot, M.J.M. (1006) 111
Van der Zee, J., Van Steveninck, J., Koster, J.F. and Dubbelman, T.M.A.R.
Inhibition of enzymes and oxidative damage of red blood cells induced by *t*-butylhydroperoxide-derived radicals (980) 175
Van der Zwaan, J.W., see Coremans, J.M.C.C. (997) 256
Vandesteene, C., see Remy, E. (1005) 87
Van Dijken, J.P., see Van Urk, H. (992) 78
Van Dorssen, R.J., see Hunter, C.N. (973) 383
Van Dorssen, R.J., see Smit, H.W.J. (973) 212
Van Duijn, B. and Vogelzang, S.A.
The membrane potential of the cellular slime mold *Dictyostelium discoideum* is mainly generated by an electrogenic proton pump (983) 186
Van Echteld, C.J.A., see Ouwerkerk, R. (1010) 294
Van Faassen, E.E., see Korstanje, L.J. (980) 225
Van Faassen, E.E., see Korstanje, L.J. (982) 196
Van Galen, M., see Lázár, G. (1011) 97
Van Gennip, A.H., see Marijnen, Y.M.T. (1012) 148
Van Gent, T., see Groener, J.E.M. (1002) 93
Van Ginkel, G., see Van Gurp, M. (973) 405
Van Golde, L.M.G., see Den Breejen, J.N. (1002) 277
Van Golde, L.M.G., see Heesbeen, E.C. (1002) 388
Van Golde, L.M.G., see Tijburg, L.B.M. (1004) 1
Van Gorkom, H.J., see Vos, M.H. (973) 163
Van Grondelle, R., see Deinum, G. (976) 63
Van Grondelle, R., see Hunter, C.N. (973) 383
Van Grondelle, R., see Matthijs, H.C.P. (975) 185
Van Gurp, M., Van Ginkel, G. and Levine, Y.K.
Fluorescence anisotropy of chlorophyll *a* and chlorophyll *b* in castor oil (973) 405
Van Hall, G., see Tal, D.M. (985) 55
Van Hardeveld, C., see Simonides, W.S. (998) 137
Van Heel, M., see Boekema, E.J. (974) 81
Van Helden, P.D., Van Lill, L., Bester, A.J. and Hoal-Van Helden, E.
Autoantibodies from patients with systemic lupus erythematosus can affect DNA and RNA synthesis in cultured cells (1009) 137
Van Heyningen, S., see Longbottom, D. (1014) 289
Van Hoof, F., see Veitch, K. (1006) 335
Vanier, M.T., see Launay, J.F. (996) 103

Vanier, M.T., see Mackie, E.J.B. (1006) 219
Van Leeuwen, C.C.M., see Schuddemat, J. (1010) 191
Van Leeuwen, C.C.M., see Schuddemat, J. (986) 290
Van Lill, L., see Van Helden, P.D. (1009) 137
Vanloo, B., see Goormaghtigh, E. (1006) 147
Van Mieghem, F.J.E., Nitschke, W., Mathis, P. and Rutherford, A.W.
The influence of the quinone-iron electron acceptor complex on the reaction centre photochemistry of Photosystem II (977) 207
Van Miert, E., see Cohen, L.H. (1002) 69
Van Mourik, J.A., see Van Buul-Wortelboer, M.F. (1011) 129
Vänngård, T., see Wydrzynski, T. (973) 23
Vannini, V., see Botti, B. (992) 327
Vannini, V., see Iannone, A. (991) 90
Van Noort, M., see Van Amerongen, A. (1001) 243
Van Nooy, I.G.P., see Kuijpers, G.A.J. (984) 63
Vanoni, M., Lotti, M. and Alberghina, L.
Expression of cloned *Saccharomyces diastaticus* glucoamylase under natural and inducible promoters (1008) 168
Van Steveninck, J., see Boegheim, J.P.J. (1012) 237
Van Steveninck, J., see Boegheim, J.P.J. (979) 215
Van Steveninck, J., see Schuddemat, J. (1010) 191
Van Steveninck, J., see Schuddemat, J. (986) 290
Van Steveninck, J., see Van der Zee, J. (980) 175
Van 't Laar, A., see Mol, M.J.T.M. (1003) 167
Van Tol, A., see Groener, J.E.M. (1002) 93
Van Urk, H., Schipper, D., Breedveld, G.J., Mak, P.R., Scheffers, W.A. and Van Dijken, J.P.
Localization and kinetics of pyruvate-metabolizing enzymes in relation to aerobic alcoholic fermentation in *Saccharomyces cerevisiae* CBS 8066 and *Candida utilis* CBS 621 (992) 78
Van Veldhoven, P., see Lemmens, M. (984) 351
Van Voorhis, K., Said, H.M., Ghishan, F.K. and Abumrad, N.N.
Transport of glutamine in rat intestinal brush-border membrane vesicles (978) 51
Van Waeg, G., see Bontemps, F. (997) 131
Varga, E., see Lavie, E. (991) 62
Vartio, T., see Kuusela, P. (993) 297
Vasseur, C., see Yannoukakos, D. (998) 43
Vasta, V., Bruni, P., Meacci, E. and Farnararo, M.
pH sensitivity of the thrombin-induced rise in fructose 2,6-bisphosphate content of human platelets (1011) 165
Vaucher, Y., see Patton, S. (980) 333
Vaughn, Jr., J.B. and Taylor, J.W.
Proton NMR and CD solution conformation determination and opioid receptor binding studies of a dynorphin A(1–17) model peptide (999) 135
Vauhkonen, M. and Somerharju, P.
Parinaroyl and pyrenyl phospholipids as probes for the lipid surface layer of human low density lipoproteins (984) 81
Vavrek, R.J., see Rao, A.G.A. (997) 278
Veale, C.A., see Nicolaou, K.C. (1003) 44
Vecchini, A., see Roberti, R. (1004) 80
Veerkamp, J.H., see Paulussen, R.J.A. (1001) 201
Veerkamp, J.H., see Peeters, R.A. (1002) 8
Vega, M.A. and Boland, R.L.
Partial characterization of the sterol binding macromolecule of *Phaseolus vulgaris* roots (1012) 10
Vegh, M., see Keresztes, T. (984) 326
Veiro, J., see Tilcock, C. (986) 167
Veiro, J.A., Khalifah, R.G. and Rowe, E.S.
The polymorphic phase behavior of dielaidoylphosphatidylethanolamine. Effect of *n*-alkanols (979) 251
Veitch, K., Draye, J.-P., Vamecq, J., Causey, A.G., Bartlett, K., Sherratt, H.S.A. and Van Hoof, F.
Altered acyl-CoA metabolism in riboflavin deficiency (1006) 335
Veldhuizen, R.A.W., Mok, A., McMurray, W.C. and Possmayer, F.
Examination of the potential role of the glycerophosphorylcholine (GPC) pathway in the biosynthesis of phosphatidylcholine by liver and lung (1005) 157
Veninga, A., see Daemen, T. (991) 145
Venkataramu, S.D., see Wilder, R.T. (997) 65
Ventriglia, R., see D'Agostino, L. (993) 228
Ventura, C., Bastagli, L., Bernardi, P., Caldarera, C.M. and Guarnieri, C.
Opioid receptors in rat cardiac sarcolemma: effect of phenylephrine and isoproterenol (987) 69
Venturoli, G., see Gabellini, N. (974) 202
Venuti, S.E., see Thomas, P.J. (982) 24
Verdery, R.B., Benham, D.F., McLennan, I., Busby, M.J., Wehrle, J.P. and Glickson, J.D.
Proton nuclear magnetic resonance methyl and methylene linewidths from plasma decrease during postprandial lipemia (1006) 287
Vereecke, J., see Lemmens, M. (984) 351
Verger, R., see Gargouri, Y. (1006) 137
Verger, R., see Gargouri, Y. (1006) 255
Verheyden, K., see Lemmens, M. (984) 351
Verhoeven, A.J.M. and Jansen, H.
Secretion of liver lipase activity by periportal and perivenous hepatocytes (1001) 239
Verkhovsky, M.I., see Drachev, L.A. (973) 189
Verkleij, A., see De Cock, H. (985) 313
Verkleij, A.J., see Frederik, P.M. (979) 275
Verly, W.G., Maréchal, D. and César, R.
The rat-liver microsomal AP endonuclease. The endoplasmic reticulum is presented as a net thrown into the cytosol to capture newly synthesized karyophilic proteins (1008) 183
Verma, R.S., see Antony, A.C. (979) 62
Verméglio, A., see Joliot, P. (975) 336
Verméglio, A., see Lavergne, J. (975) 346
Verméglio, A., see Lavorel, J. (973) 290
Vernon, L.P., see Kamen, M.D. (1000) 329
Vesci, L., see Ricci, G. (990) 211
Vesterberg, O., see Petrén, S. (994) 161
Vesterman, B., Saulitis, J., Betins, J., Liepins, E. and Nikiforovich, G.V.
Dynamic space structure of the Leu-enkephalin molecule in DMSO solution (998) 204
Vetter, W., see Locher, R. (1012) 279
Vial, H.J., see Ancelin, M.L. (1001) 82
Vianello, A. and Macrì, F.
NAD(P)H oxidation elicits anion superoxide formation in radish plasmalemma vesicles (980) 202
Viani, P., Marchesini, S., Cestaro, B. and Gatt, S.
Correlation of the dispersion state of pyrene cerebroside sulfate and its uptake and degradation by cultured cells (1002) 20
Viani, P., see Marchesini, S. (1002) 14
Vicente, O., see Mateu, M.G. (1007) 55
Vickers, V.C., see McMillan, R.M. (1005) 170
Victorov, A.V., Medvedeva, N.V., Gladkaya, E.M., Morozkin, A.D., Podrez, E.A., Kosykh, V.A. and Yurkiv, V.A.
Composition and structure of lipopolysaccharide-human plasma low density lipoprotein complex. Analytical ultracentrifugation, ^{31}P-NMR, ESR and fluorescence spectroscopy studies (984) 119
Vidal, M., see Sainte-Marie, J. (982) 265
Vidali, G., see Ferrari, N. (1007) 30
Vigh, L., Gombos, Z., Horváth, I. and Joó, F.
Saturation of membrane lipids by hydrogenation induces thermal stability in chloroplast inhibiting the heat-dependent stimulation of Photosystem I-mediated electron transport (979) 361
Vigh, L., see Horváth, I. (1002) 409
Vijayagopal, P., see Srinivasan, S.R. (1006) 159
Vilella, S., Cassano, G. and Storelli, C.
How many Na^+-dependent carriers for L-alanine and L-proline in

the eel intestine? Studies with brush-border membrane vesicles (984) 188
Villalain, J., Gomez-Fernandez, J.C., Jackson, M. and Chapman, D.
Fourier transform infrared spectroscopic studies on the secondary structure of the Ca^{2+}-ATPase of sarcoplasmic reticulum (978) 305
Villar, E., see García-Sastre, A. (999) 171
Villar, M.T., see Artigues, A. (985) 325
Villar-Palasí, C. and Larner, J.
on 'Insulin-mediated effect on the activity of UDPG-glycogen transglucosylase of muscle' (1000) 311
Villar-Palasí, C., see Larner, J. (1000) 311
Vincendon, G., see Kupferberg, A. (1013) 231
Vincent, M.F., see Bontemps, F. (997) 131
Vincent, N., Martin, G. and Baverel, G.
Simultaneous synthesis and degradation of glutamine in isolated rat liver cells. Effect of vasopressin (1014) 184
Vincenzi, F.F., see Di Julio, D. (981) 337
Vincenzini, M.T., Iantomasi, T. and Favilli, F.
Glutathione transport across intestinal brush-border membranes: effects of ions, pH, $\Delta\psi$, and inhibitors (987) 29
Violette, C.A., see Frank, H.A. (976) 222
Violette, C.A., see Taremi, S.S. (973) 86
Viret, J., see Christon, R. (980) 77
Virtanen, J.A., see Salonen, I.S. (982) 205
Vishwanath, B.S., see Rosenthal, M.D. (1001) 1
Visser, J., see Hofer, F. (992) 298
Vissers, M.C.M., see Brieland, J.K. (978) 191
Viswanatha, T., see Goh, C.J. (990) 240
Vithayathil, P.J., see Ganju, R.K. (993) 266
Vlachová, V., see Zemková, H. (986) 146
Vladimirov, S.N., see Graifer, D.M. (1008) 146
Vladimirsky, Y., see Rothman, S.S. (991) 484
Vlassov, V.V., see Graifer, D.M. (1008) 146
Vogel, H., see Lundberg, P. (999) 12
Vogel, J., see Napolitano, L.A. (989) 153
Vogel, M., see Braun, H.P. (978) 223
Vogel, M., see Strasser, T. (1003) 63
Vogel, V., see Beitinger, H. (984) 293
Vogelzang, S.A., see Van Duijn, B. (983) 186
Vogt, E., see Locher, R. (1012) 279
Voigt, J., see Stahl, U. (973) 198
Volberding, P.A. and McCutchan, J.A.
The HIV epidemic: medical and social challenges (989) 227
Volker, T.T., Pianet, I., Labouesse, J. and Teissié, J.
Signal transduction by membrane receptors in viable electropermeabilized cells: isoproterenol-stimulated cyclic AMP synthesis in C6 glioma cells (984) 243
Von Blankenfeld, G. and Jauch, P.
Amino acid specificity of the Na^+/alanine cotransporter in pancreatic acinar cells (980) 385
Von der Mark, K., see Risse, G. (994) 258
Von Gunten, C.F. and Sinensky, M.
Treatment of CHO-K1 cells with 25-hydroxycholesterol produces a more rapid loss of 3-hydroxy-3-methylglutaryl-coenzyme A reductase activity than can be accounted for by enzyme turnover (1001) 218
Von Jagow, G., see Powers, L. (975) 293
Von Kisslinger, A., see Andreoni, A. (1014) 8
Von Schenck, H., see Lindahl, M. (1005) 282
Von Wettstein, D., see Simpson, D.J. (975) 164
Voorter, C.E.M. and Kistler, J.
cAMP-dependent protein kinase phosphorylates gap junction protein in lens cortex but not in lens nucleus (986) 8
Vos, J.J., see Duysens, L.N.M. (1000) 395
Vos, M.H., Klaassen, H.E. and Van Gorkom, H.J.
Electron transport in *Heliobacterium chlorum* whole cells studied by electroluminescence and absorbance difference spectroscopy (973) 163
Vranckx, R., see Savu, L. (992) 379
Vranckx, R., see Vallette, G. (997) 302
Vucic, A., see Davis, B.H. (1010) 318
Vuokila, P.T. and Hassinen, I.E.
DCCD sensitivity of electron and proton transfer by NADH : ubiquinone oxidoreductase in bovine heart submitochondrial particles – a thermodynamic approach (974) 219
Vygodina, T. and Konstantinov, A.
Effect of pH on the spectrum of cytochrome *c* oxidase hydrogen peroxide complex (973) 390
Vyskočil, F., see Zemková, H. (986) 146

W

Wabiko, H., see Sano, H. (1009) 35
Wachtel, E., see Bach, D. (979) 11
Wachter, E., see Rasp, G. (999) 335
Wachter, H., see Werner-Felmayer, G. (1012) 140
Wade, V.J., see Ward, R.J. (993) 131
Waga, S., Mizuno, S. and Yoshida, M.
Nonhistone proteins HMG1 and HMG2 suppress the nucleosome assembly at physiological ionic strength (1007) 209
Wagner, S., see Russell, P.J. (1008) 243
Wahlberg, P., Fex, G. and Wennerberg, J.
A relationship between retinol and cellular retinol-binding protein concentrations in human squamous cell carcinomas (1010) 287
Wajcman, H., Delaunay, J., Francina, A., Rosa, J. and Galacteros, F.
Hemoglobin Nouakchott [α114(GH2)Pro → Leu]: a new hemoglobin variant displaying an unusual increase in hydrophobicity (998) 25
Wajcman, H., see Yannoukakos, D. (998) 43
Wajner, M. and Harkness, R.A.
Distribution of xanthine dehydrogenase and oxidase activities in human and rabbit tissues (991) 79
Wakabayashi, K., see Hattori, M.-a. (992) 272
Wakabayashi, Y., see Yamada, R.-h. (990) 325
Wakagi, T., see Eguchi, H. (990) 133
Wakao, N., see Tanisho, S. (973) 1
Wakelam, M.J.O., see Davies, S.-A. (1013) 173
Wakelam, M.J.O., see Palmer, S. (1014) 239
Waku, K., see Masuzawa, Y. (1005) 1
Walde, P., see Nastruzzi, C. (1013) 36
Waldman, S.A., Rapoport, R.M., Fiscus, R.R., Leitman, D.C., Chang, L.Y. and Murad, F.
Regulation of particulate guanylate cyclase by atriopeptins: relation between peptide structure, receptor binding, and enzyme kinetics (999) 157
Wali, A., see Gumbhir, K. (981) 77
Walker, F.J., see Fay, P.J. (994) 142
Walker, J.A., see Mitchell, T.J. (1007) 67
Walker, J.C., see Levy, A. (991) 97
Walker, S.W., see Hayes, J.D. (994) 21
Walker, W.A., see Ozaki, C.K. (991) 243
Wall, S.R. and Lopaschuk, G.D.
Glucose oxidation rates in fatty acid-perfused isolated working hearts from diabetic rats (1006) 97
Wallace, M.A. and Carter, H.R.
Effects of the wasp venom peptide, mastoparan, on a phosphoinositide-specific phospholipase C purified from rabbit brain membranes (1006) 311
Wallace, W., see Batt, R. (990) 109

Wallach, J.M., see Saulnier, J.M. (995) 285
Wallimann, T., see Adams, V. (981) 213
Wallis, M., see Warwick, J.M. (1008) 247
Wallis, O.C., see Warwick, J.M. (1008) 247
Walls, J., see Dickson, I.R. (1013) 254
Wallstén, M., Yang, Q. and Lundahl, P.
Entrapment of lipid vesicles and membrane protein-lipid vesicles in gel bead pores (982) 47
Walsh, J.L., Keith, T.J. and Knull, H.R.
Glycolytic enzyme interactions with tubulin and microtubules (999) 64
Walter, P., Allemand, D., De Renzis, G. and Payan, P.
Mediating effect of calcium in $HgCl_2$ cytotoxicity in sea urchin egg: role of mitochondria in Ca^{2+}-mediated cell death (1012) 219
Wang, C.-C., see Hua, Q.-X. (994) 114
Wang, C.-N., Chen, J.-C., Shiao, M.-S. and Wang, C.-T.
The aggregation of human platelet induced by ganodermic acid S (986) 151
Wang, C.-T., see Shiao, Y.-J. (980) 56
Wang, C.-T., see Wang, C.-N. (986) 151
Wang, D.-C., see Hua, Q.-X. (994) 114
Wang, H.-Y., Tümmler, B. and Boggs, J.M.
Use of spin labels to determine the percentage of interdigitated lipid in complexes with polymyxin B and polymyxin B nonapeptide (985) 182
Wang, H.-Y., see Boggs, J.M. (985) 199
Wang, Q., see Mannella, C.A. (981) 363
Wang, S.R., Infante, J., Catalá, D., Petit, D., Bonnefis, M.T. and Infante, R.
Lipid and lipoprotein synthesis in isolated and cultured hepatocytes from lean and obese Zucker rats (1002) 302
Wang, Y.-s., see Tian, W.-X. (998) 310
Ward, L.D. and Arakawa, T.
Stimulation of microtubule assembly by recombinant human interferon-α and interferon-γ (1012) 317
Ward, M.R., see Butcher, P.A. (980) 50
Ward, P.S., see Barrow, S.E. (993) 121
Ward, R.J., O'Connell, M.J., Dickson, D.P.E., Reid, N.M.K., Wade, V.J., Mann, S., Bomford, A. and Peters, T.J.
Biochemical studies of the iron cores and polypeptide shells of haemosiderin isolated from patients with primary or secondary haemochromatosis (993) 131
Warren, P.G., see Parrett, K.G. (973) 324
Warwick, J.M., Wallis, O.C. and Wallis, M.
Cloning, sequence and expression in *Escherichia coli* of cDNA for ovine pregrowth hormone (1008) 247
Watahiki, M., see Tanaka, M. (1008) 193
Watanabe, H., Kobayashi, A., Hayashi, H. and Yamazaki, N.
Effects of long-chain acyl carnitine on membrane fluidity of human erythrocytes (980) 315
Watanabe, H., see Kobayashi, A. (986) 83
Watanabe, K., see Hampel, G. (1006) 151
Watanabe, M., see Kikuchi, H. (1009) 283
Watanabe, M., see Ohuchi, K. (1003) 9
Watanabe, M., see Ohuchi, K. (1013) 86
Watanabe, M., see Tomita, T. (978) 185
Watanabe, T., see Suzuki, H. (990) 25
Waterham, H.R., see Bruinenberg, P.G. (1008) 157
Waterhouse, P., see Connor, A.M. (1009) 75
Watkins, L.C., see Marzuki, S. (975) 222
Wattiaux, R., see De Duve, C. (1000) 317
Watts, A., see Boggs, J.M. (981) 243
Watts, A., see Bradshaw, J.P. (987) 104
Watts, A., see Bradshaw, J.P. (987) 111
Watts, A., see Sternberg, B. (980) 117
Weaver, A.B., see Kukreja, R.C. (990) 198
Weaver, J., see Jelicks, L.A. (1012) 261
Weaver, T.E., see O'Reilly, M.A. (1011) 140
Webb, M.S. and Green, B.R.
Permeability properties of large unilamellar vesicles of thylakoid lipids (984) 41
Webb, P.D., see Kenton, P. (1014) 271
Webb, S., see Dickson, I.R. (1013) 254
Webb, T.E., see Schumm, D.E. (1009) 54
Webber, S.E., see Nicolaou, K.C. (1003) 44
Weber, P.C., see Lorenz, R.L. (993) 259
Webster, A., see Apap-Bologna, A. (995) 70
Wedler, F.C., see Hsuanyu, Y. (995) 54
Weeks, G., see Bhanot, P. (995) 291
Wefers, H., see Di Mascio, P. (1007) 151
Wehrle, J.P., see Verdery, R.B. (1006) 287
Wehrli, S., see Tanaka, A. (993) 280
Wei, C.-F., see White, J.W. (1009) 287
Wei, L.-X., see Goodman, R. (1009) 216
Weik, R., Lönnendonker, U. and Neumcke, B.
Low-conductance states of K^+ channels in adult mouse skeletal muscle (983) 127
Weiner, M.W., see Karczmar, G.S. (1012) 121
Weinhold, P.A., Rounsifer, M.E., Charles, L. and Feldman, D.A.
Characterization of cytosolic forms of CTP:choline-phosphate cytidylyltransferase in lung, isolated alveolar type II cells, A549 cell and Hep G2 cells (1006) 299
Weininger, J., see Lavie, E. (991) 62
Weisgraber, K.H., see Gong, E.L. (1006) 317
Weiss, M., Sekler, I. and Pick, U.
Characterization of soluble and membrane-bound forms of a vanadate-sensitive ATPase from plasma membranes of the halotolerant alga *Dunaliella salina* (974) 254
Weissig, V., Lasch, J. and Gregoriadis, G.
Covalent coupling of sugars to liposomes (1003) 54
Weissinger, E., see Hofer, F. (992) 298
Weissinger, E., see Mischak, H. (990) 1
Weksler, B.B., see Hampel, G. (1006) 151
Welsch, J.A., see Russell, P.J. (1008) 243
Welte, W., Leonhard, M., Diederichs, K., Weltzien, H.-U., Restall, C., Hall, C. and Chapman, D.
Stabilization of detergent-solubilized Ca^{2+}-ATPase by poly(ethylene glycol) (984) 193
Welti, R., see Roth, M.R. (986) 217
Weltzien, H.-U., see Welte, W. (984) 193
Wendel, J., see Raida, M. (980) 291
Wendelburg, B.E., see Thomas, P.J. (982) 24
Wenger, R., see Müller, W.E.G. (1008) 208
Wennerberg, J., see Wahlberg, P. (1010) 287
Wenzel, H.R., see Mehlich, A. (996) 23
Werner, D., see Riedel, W. (1008) 119
Werner, E.R., see Werner-Felmayer, G. (1012) 140
Werner-Felmayer, G., Werner, E.R., Fuchs, D., Hausen, A., Reibnegger, G. and Wachter, H.
Characteristics of interferon induced tryptophan metabolism in human cells in vitro (1012) 140
Werner, G.-D., see Bayerl, T.M. (984) 214
Werner, P.K., Lieberman, D.M. and Reithmeier, R.A.F.
Accessibility of the *N*-ethylmaleimide-unreactive sulfhydryl of human erythrocyte Band 3 (982) 309
Wert, S., see Rice, W.R. (1006) 237
Wertz, P.W. and Downing, D.T.
β-Glucosidase activity in porcine epidermis (1001) 115
Wertz, P.W. and Downing, D.T.
Free sphingosines in porcine epidermis (1002) 213
Weser, U., see Krauter, B. (1013) 212
Wésslén, N., see Ali, L. (1010) 283
West, I.C.
Triphasic reduction of b_H and the absence of equilibration at the *i*-site of bc_1 complex (976) 182
Westerhof, G.R., see Jansen, G. (985) 266

Westerhoff, H.V., Hendler, R.W., Zasloff, M. and Juretić, D.
Interactions between a new class of eukaryotic antimicrobial agents and isolated rat liver mitochondria (975) 361
Westerhoff, H.V., see Kuijpers, G.A.J. (984) 71
Westerman, J., see Van Amerongen, A. (1004) 36
Westerman, M.P., see Fung, L.W.-M. (982) 167
Westerman, P.W., see Pope, J.M. (980) 69
Westling, P.R., see Meryhew, N.L. (991) 470
Westphal, P.A., see Sokolove, P.M. (983) 15
Wever, R., see Harvey, P.J. (994) 59
Wever, R., see Krenn, B.E. (998) 63
Wheeler, C.P.D. and Yudilevich, D.L.
Lysine and alanine transport in the perfused guinea-pig placenta (978) 257
Wheeler, J.J. and Boss, W.F.
The presence of *sn*-1-palmitoyl lysophosphatidylinositol monophosphate correlates positively with the fusion-permissive state of the plasma membrane of fusogenic carrot cells grown in suspension culture (984) 33
Wheeler, T.J.
Effects of three proposed inhibitors of adipocyte glucose transport on the reconstituted transporter (979) 331
Wherrett, J.R., see Huterer, S.J. (1001) 68
Whetton, A.D. and Dexter, T.M.
Myeloid haemopoietic growth factors (989) 111
White, J.W., Wei, C.-F., Hwu, H.-R. and Holoubek, V.
Two LINE 1 repeats in rat (1009) 287
Whiting, M.J., Wishart, R.A., Gowing, M.R., McManus, M.E. and Mackinnon, A.M.
Bile acid synthesis and secretion by rabbit hepatocytes in primary monolayer culture: comparison with rat hepatocytes (1001) 176
Whiting, M.J., Wishart, R.A., Lewis,, G. and Mackinnon, A.M.
Bile acid synthesis by cultured rabbit hepatocytes: stimulation by three lipoprotein fractions (1005) 137
Whitsett, J.A., see Batenburg, J.J. (1006) 329
Whitsett, J.A., see Chung, J. (1002) 348
Whitsett, J.A., see O'Reilly, M.A. (1011) 140
Whitsett, J.A., see Rice, W.R. (1006) 237
Whitsett, J.A., see Wispe, J.R. (994) 30
Widdas, W.F., Kleinzeller, A. and Thompson, K.A.
The accumulation of free and phosphorylated sugars in adipocytes based on a dynamic diffusion barrier (979) 221
Widmer, C., see Crane, F.L. (1000) 358
Wiederanders, B., see Dahlmann, B. (991) 253
Wiederholt, M., see Korbmacher, C. (985) 67
Wierwille, R., see Sokolove, P.M. (983) 15
Wiesner, R., Kasüschke, A., Kühn, H., Anton, M. and Schewe, T.
Oxygenation of mitochondrial membranes by the reticulocyte lipoxygenase. Action on monoamine oxidase activities A and B (986) 11
Wiggins, D., see Lund, P. (975) 330
Wijkander, J. and Sundler, R.
A role for protein kinase C-mediated phosphorylation in the mobilization of arachidonic acid in mouse macrophages (1010) 78
Wikander, G., see Arvidson, G. (984) 167
Wikström, M., see Majander, A. (980) 139
Wilczok, T., see Stępień, K.B. (997) 49
Wilczynska, A., see Schulman, H.M. (1010) 1
Wilde, C.J., Addey, C.V.P. and Knight, C.H.
Regulation of intracellular casein degradation by secreted milk proteins (992) 315
Wilder, R.T., Venkataramu, S.D., Dalton, L.R., Birktoft, J.J., Trommer, W.E. and Park, J.H.
Catalytic mechanism and interactions of NAD $^{+}$ with glyceraldehyde-3-phosphate dehydrogenase: correlation of EPR data and enzymatic studies (997) 65
Wilhelm, M., see Strässle, M. (980) 305
Wilkinson, S.G., see Cox, A.D. (1001) 60
Wille, B., Franz, B. and Jung, G.
Location and dynamics of alamethicin in unilamellar vesicles and thylakoids as model systems. A spin label study (986) 47
Willem, R., see Liemans, V. (998) 111
Willemsen, P.H.M., see De Groot, M.J.M. (1006) 111
Williams, B.W., see Stubbs, C.D. (986) 89
Williams, J.D., see Steadman, R. (1013) 21
Williams, R.J., McCarthy, A.D. and Sutherland, C.D.
Esterification and absorption of cholesterol: in vitro and in vivo observations in the rat (1003) 213
Williamson, J.R., see Hansen, C.A. (1001) 134
Williamson, M.P., Davis, P.D., Broadhurst, M.J. and Nixon, J.S.
^{1}H-NMR and protection studies of interactions between ligands and bovine pancreatic phospholipase A_2 (997) 9
Williamson, M.T., see Hansen, C.A. (1001) 134
Willis, A.C., see Cooper, G.J.S. (1014) 247
Wilschut, J., see Eastman, S.J. (981) 178
Wilson, D., Barry, J.A. and Ramaswamy, K.
Characteristics of tripeptide transport in human jejunal brush-border membrane vesicles (986) 123
Wilson, D.M., see McMorrow, I. (981) 21
Wilson, J.B., see Codrington, J.F. (1009) 87
Wilson, N.M. and Omiecinski, C.J.
Xenobiotic microsomal epoxide hydrolase: 5′ sequence of the human gene (1008) 357
Wilson, P.M., see Twining, S.S. (992) 181
Wilson, R.E., see Hart, I.R. (989) 65
Wilson, S.E., see Hegazy, M.G. (1011) 198
Wilson, S.H., see Nowak, R. (1008) 203
Wilson, T.H., see King, S.C. (982) 253
Wilson, T.H., see McMorrow, I. (981) 21
Wiman, B., see Lindahl, T. (994) 253
Winter, R., Xie, C.-L., Jonas, J., Thiyagarajan, P. and Wong, P.T.T.
High-pressure small-angle neutron scattering (SANS) study of 1,2-dielaidoyl-*sn*-glycero-3-phosphocholine bilayers (982) 85
Winzor, D.J., see Harris, S.J. (999) 95
Wirtz, K.W.A., see Van Amerongen, A. (1001) 243
Wirtz, K.W.A., see Van Amerongen, A. (1004) 36
Wise, W.C., see Rogers, T.S. (1001) 169
Wiseman, J.S., see Skoog, M.T. (996) 89
Wishart, R.A., see Whiting, M.J. (1001) 176
Wishart, R.A., see Whiting, M.J. (1005) 137
Wiśniewski, J., see Krawczyk, Z. (1009) 237
Wispe, J.R., Clark, J.C., Burhans, M.S., Kropp, K.E., Korfhagen, T.R. and Whitsett, J.A.
Synthesis and processing of the precursor for human mangano-superoxide dismutase (994) 30
Wistrom, C.A., Rand, R.P., Growe, L.M., Spargo, B.J. and Crowe, J.H.
Direct transition of dioleoylphosphatidylethanolamine from lamellar gel to inverted hexagonal phase caused by trehalose (984) 238
Witt, H.T., see Boekema, E.J. (974) 81
Witt, H.T., see Gerken, S. (977) 52
Witt, H.T., see Meyer, B. (974) 36
Witt, I., see Boekema, E.J. (974) 81
Wittmann-Liebold, B., see Fimmel, S. (978) 231
Woermann, C., see Reymann, A. (1011) 158
Woffendin, C., see Plagemann, P.G.W. (1010) 7
Woffendin, C., see Plagemann, P.G.W. (981) 315
Wojtczak, A.B., see Latos, P. (991) 152
Wolf, B.A., see Turk, J. (1001) 16
Wolf, C., see Rainteau, D. (1011) 81
Wolfe, A.D.
The monoclonal antibody AE-2 modulates fetal bovine serum acetylcholinesterase substrate hydrolysis (997) 232
Wolfe, A.D., see Payne, C.S. (999) 46

Wolfe, F.H., Sathe, S.K., Goll, D.E., Kleese, W.C., Edmunds, T. and Duperret, S.M.
Chicken skeletal muscle has three Ca^{2+}-dependent proteinases (998) 236
Wolfe, S.A., Anderson, J.V., Grimes, S.R., Stein, G.S. and Stein, J.S.
Comparison of the structural organization and expression of germinal and somatic rat histone H4 genes (1007) 140
Wolgast, M., see Öjteg, G. (991) 317
Woloschak, G.E., see Hooper, W.C. (1013) 47
Wolosiuk, R.A., see Prat-Gay, G. (973) 457
Won, Y., see Friesner, R.A. (977) 99
Wong, P.T.T., Capes, S.E. and Mantsch, H.H.
Hydrogen bonding between anhydrous cholesterol and phosphatidylcholines: an infrared spectroscopic study (980) 37
Wong, P.T.T., Saint Girons, I., Guillou, Y., Cohen, G.N., Bârzu, O. and Mantsch, H.H.
Pressure-induced changes in the secondary structure of the *Escherichia coli* methionine repressor protein (996) 260
Wong, P.T.T., see Winter, R. (982) 85
Wong, P.Y.-K., see Ng, C.F. (1004) 332
Wong, R.S.L., Kapp, L.N. and Dewey, W.C.
DNA fork displacement rate measurements in heated Chinese hamster ovary cells (1007) 224
Wood, C.A. and Schofield, J.G.
The effects of thyrotropin-releasing hormone and potassium depolarization on phosphoinositide metabolism and cytoplasmic calcium in bovine pituitary cells (1013) 97
Wood, C.A. and Schofield, J.G.
The effect of acetylcholine on inositol lipid metabolism and intracellular calcium concentrations in bovine anterior pituitary cells (1013) 180
Wood, J.M., see Schallreuter, K.U. (997) 242
Wood, L.H., see Brown, L.A.S. (1001) 76
Wood, S.H., see Collins, J.M. (1009) 264
Woodhouse, A.G., see Learmonth, R.P. (987) 124
Wool, I.G., see Devi, K.R.G. (1008) 258
Worth, G.A., King, P.M. and Richards, W.G.
Theoretical calculation of tautomer equilibria in solution: 4-(5-)methylimidazole (993) 134
Woussen-Colle, M.-C., see Blachier, F. (1013) 144
Wouters, N.M.H., see Jansen, H. (1001) 44
Woynarowski, J.M. and Beerman, T.A.
Preferential effect of bleomycin on newly replicated chromatin in nuclei from L1210 cells (1007) 116
Wraight, C.A., see Sebban, P. (974) 54
Wraight, C.A., see Shopes, R.J. (974) 114
Wright, B.E., see Butler, M.H. (991) 337
Wright, J., see Al-Ahkras, G. (993) 275
Wrzosek, A., Famulski, K.S., Lehotsky, J. and Pikuła, S.
Conformational changes of (Ca^{2+}-Mg^{2+})-ATPase of erythrocyte plasma membrane caused by calmodulin and phosphatidylserine as revealed by circular dichroism and fluorescence studies (986) 263
Wu, H., Yao, Q.-Z. and Tsou, C.-L.
Creatine kinase is modified by 2-chloromercuri-4-nitrophenol at the active site thiols with complete inactivation (997) 78
Wu, J., see Schwartz, M. (979) 299
Wu, K., see Wuarin, F. (981) 185
Wu, K.K., see Tsai, A.-l. (993) 74
Wu, X., see Carrasquer, G. (982) 73
Wu, X., see Greenfield, N.J. (995) 246
Wuarin, F., Wu, K., Murer, H. and Biber, J.
The Na^+/P_i-cotransporter of OK cells: reaction and tentative identification with *N*-acetylimidazole (981) 185
Wurzburger, S., see Barbato, G. (991) 324
Wuytack, F., see Missiaen, L. (990) 40
Wydrzynski, T., Ångström, J. and Vänngård, T.
H_2O_2 formation by Photosystem II (973) 23
Wynants, J., see Missiaen, L. (990) 40
Wynn, R.M., see Kriauciunas, A. (976) 70
Wyse, J.W., Blank, M.E., Maynard, C.L., Diedrich, D.F. and Butterfield, D.A.
Electron spin resonance investigation of the interaction of the anion and glucose transport inhibitor, *p*-azidobenzylphlorizin, with the human red cell membrane (979) 127
Wyse, J.W. and Butterfield, D.A.
Interaction of hemin with erythrocyte membranes: alterations in the physical state of the major sialoglycoprotein (979) 121

X

Xian-Xuan, C., Fas, N. and Bates, G.W.
The displacement of copper by iron at the specific binding sites of ovotransferrin (992) 160
Xiao, J. and McCarty, R.E.
Binding of chloroplast coupling factor 1 deficient in the δ subunit to thylakoid membranes (976) 203
Xie, C.-L., see Winter, R. (982) 85
Xie, H. and Bittar, E.E.
Nicardipine as a Ca^{2+} channel blocker in single barnacle muscle fibers (1014) 207
Xiong, W., see Yang, C.-y. (1002) 231
Xu, J.-C., see Goodman, R. (1009) 216
Xu, Z.-F., Larreta-Garde, V. and Thomas, D.
Influence of polyol additive on enzyme catalytic selectivity towards different substrates (998) 251
Xu, Z.-x. and Rooney, S.A.
Influence of dexamethasone on the lipid distribution of newly synthesized fatty acids in fetal rat lung (1005) 209

Y

Yachi, K., Sugiyama, Y., Sawada, Y., Iga, T., Ikeda, Y., Toda, G. and Hanano, M.
Characterization of Rose Bengal binding to sinusoidal and bile canalicular plasma membrane from rat liver (978) 1
Yagi, K. and Ozawa, T.
on 'Crystallization of Michaelis complex of D-amino acid oxidase' (1000) 203
Yagi, K.
Commentary by (1000) 203
Yajima, H., see Matsuzaki, K. (981) 130
Yamada, H., see Hata, H. (990) 175
Yamada, H., see Krenn, B.E. (998) 63
Yamada, J., see Suzuki, H. (990) 25
Yamada, K., see Kudo, Y. (978) 313
Yamada, K., see Satoh, O. (985) 120
Yamada, K., see Taira, M. (1007) 203
Yamada, K., see Tazuya, K. (990) 73
Yamada, K.M., see Izumi, M. (990) 101
Yamada, R.-h., Nagasaki, H., Nagata, Y., Wakabayashi, Y. and Iwashima, A.
Administration of D-aspartate increases D-aspartate oxidase activity in mouse liver (990) 325

Yamada, T., see Takasu, N. (1012) 117
Yamaga, N., see Kohara, H. (991) 141
Yamagata, T., see Fukaya, N. (1004) 108
Yamaguchi, H., see Nishimura, C. (1012) 29
Yamaguchi, N., see Kozaki, Y. (1014) 120
Yamaguchi, T., Fukase, M., Nishikawa, M., Fujimi, T. and Fujita, T.
Parathyroid hormone degradation by chymotrypsin-like endopeptidase in the clonal osteogenic UMR-106 cell (1010) 177
Yamaguchi, T., see Sakai, T. (993) 128
Yamaguchi, Y., see Tamiya, N. (995) 28
Yamakawa, M., Sugisaki, K., Morimoto, M., Tanaka, M., Yamamoto, M., Ichikawa, T. and Nakashima, K.
Effects of gene dosage on the expression of human growth hormone cDNA in *Escherichia coli* (1009) 156
Yamakawa, M., see Tanaka, M. (1008) 193
Yamakura, F., see Ohmori, D. (996) 166
Yamamoto, A., see Ikeda, Y. (1003) 254
Yamamoto, D. and Suzuki, N.
Properties of single chloride channels in primary neuronal cultures of *Drosophila* (986) 187
Yamamoto, H., see Kikuchi, H. (1009) 283
Yamamoto, I., Takai, T. and Mori, S.
Cytidylate cyclase activity in mouse tissues: the enzymatic conversion of cytidine 5′-triphosphate to cytidine 3′,5′-cyclic monophosphate (cyclic CMP) (993) 191
Yamamoto, K., see Sakai, H. (991) 367
Yamamoto, K., see Takegawa, K. (990) 98
Yamamoto, M., Gao, F., Furuichi, M., Ichiyoshi, Y. and Endo, H.
A LINE 1 sequence interrupts the rat α2u globulin gene (1008) 322
Yamamoto, M., see Iwasaki, M. (992) 1
Yamamoto, M., see Tanaka, M. (1008) 193
Yamamoto, M., see Ueno, T. (1009) 27
Yamamoto, M., see Yamakawa, M. (1009) 156
Yamamoto, S., see Setoguchi, M. (1008) 213
Yamamoto, T., see Kobayashi, A. (986) 83
Yamamoto, T., see Ohyashiki, T. (981) 235
Yamamoto, Y. and La Mar, G.N.
Proton NMR investigation of the influence of subunit assembly on the low-spin ⇌ high-spin equilibrium of met-azido hemoglobin A (996) 187
Yamamoto, Y., see Mizobuchi, A. (977) 26
Yamamura, H., see Katsu, T. (983) 135
Yamamura, T., see Hibino, Y. (1008) 287
Yamamura, T., see Ohmori, D. (996) 166
Yamanaka, M., see Takikawa, H. (1004) 147
Yamanaka, T., see Kurokawa, T. (976) 135
Yamanaka, T., see Sato, A. (976) 129
Yamane, T., see Juneja, L.R. (1003) 277
Yamane, Y., see Suzuki, Y. (1012) 135
Yamasaki, N., see Lee, S. (984) 174
Yamashita, T., see Iwabuchi, K. (999) 183
Yamauchi, K., Moriya, A. and Kinoshita, M.
Peculiar membrane morphologies of archaebacterial lipid models: 1,1′-polymethylenebis(2-alkyl-*sn*-glycero-3-phosphocholine) (1003) 151
Yamauchi, K., see Kaminogawa, S. (998) 50
Yamazaki, I., see Mimuro, M. (973) 153
Yamazaki, I., see Shimada, K. (975) 72
Yamazaki, N., see Kobayashi, A. (986) 83
Yamazaki, N., see Watanabe, H. (980) 315
Yamazaki, R.K., see Poosch, M.S. (1006) 291
Yamazaki, S., see Utsumi, J. (998) 167
Yanagimoto, K.C., see Fisher, K.A. (982) 237
Yanagita, Y., see Sone, N. (977) 329
Yang, C.-y., Gu, Z.-W., Chong, I., Xiong, W., Rosseneu, M., Yang, H.-x., Lee, B.-r., Gotto, Jr., A.M. and Chan, L.
The primary structure of human apolipoprotein A-IV (1002) 231
Yang, D.-P., see Makriyannis, A. (986) 141
Yang, F.Y., see Zhang, X.F. (976) 53
Yang, H.-x., see Yang, C.-y. (1002) 231
Yang, Q., see Wallstén, M. (982) 47
Yannoukakos, D., Vasseur, C., Blouquit, Y., Bursaux, E. and Wajcman, H.
Primary structure of the cytoplasmic domain of human erythrocyte protein band 3. Comparison with its sequence in the mouse (998) 43
Yano, T., see Sato, A. (976) 129
Yanofsky, C.
Tryptophan synthetase of *E. coli*: a multifunctional, multicomponent enzyme; a commentary by (1000) 133
Yanofsky, C.
on 'A second reaction catalyzed by the tryptophan synthetase of *Escherichia coli*' (1000) 133
Yanuck, M.D., see Tal, D.M. (985) 55
Yao, Q.-Z., see Wu, H. (997) 78
Yashiro, K., Kameyama, Y., Mizuno, M., Hayashi, S., Sakashita, Y. and Yokota, Y.
Phospholipid metabolism in rat submandibular gland. Positional distribution of fatty acids in phosphatidylcholine and microsomal lysophospholipid acyltransferase systems concerning proliferation (1005) 56
Yasuda, T., see Tomita, T. (978) 185
Yasumura, Y., see Sorimachi, K. (1010) 72
Yates, M.G., see Ljungström, E. (994) 210
Yatomi, Y., see Ozaki, Y. (1012) 87
Yatsu, F.M., see Alam, R. (1004) 292
Yatsunami, K., see Yoshimura, S. (981) 69
Yaylali, B., see Malaisse-Lagae, F. (998) 118
Ye, W.-N. and Combes, D.
The relationship between the glucose oxidase subunit structure and its thermostability (999) 86
Yeats, D.A. and Bakhle, Y.S.
Phospholipases A_2 and C of human lung; subcellular distribution and substrate selectivity (1003) 189
Yein, F.S. and Stenesh, J.
In vitro production of thymine dimer by ultraviolet irradiation of DNA from mesophilic and thermophilic bacteria (1009) 110
Yeo, Y.K., Philbrick, D.-J. and Holub, B.J.
Altered acyl chain compositions of alkylacyl, alkenylacyl, and diacyl subclasses of choline and ethanolamine glycerophospholipids in rat heart by dietary fish oil (1001) 25
Yeo, Y.K., Philbrick, D.-J. and Holub, B.J.
Effects of dietary $n-3$ fatty acids on mass changes and [^{3}H]glycerol incorporation in various glycerolipid classes of rat kidney in vivo (1006) 9
Yip, T.-T., see Hutchens, T.W. (999) 323
Ylä-Herttuala, S., see Jaakkola, O. (1005) 118
Yoakim, C., see Mais, D.E. (1012) 184
Yocum, C.F., see Ghanotakis, D.F. (974) 44
Yoda, K., Tokunaga, K. and Sakiyama, S.
A unique structure of a mouse γ-actin processed pseudogene (1009) 194
Yokohama, H., see Sugama, K. (1011) 75
Yokono, S., Ogli, K., Miura, S. and Ueda, I.
400 MHz two-dimensional nuclear Overhauser spectroscopy on anesthetic interaction with lipid bilayer (982) 300
Yokota, Y., see Yashiro, K. (1005) 56
Yokoyama, I., see Matsuzaki, K. (980) 371
Yoneda, Y., Ogita, K., Ohgaki, T., Uchida, S. and Meguri, H.
N-Methyl-D-aspartate-sensitive [^{3}H]glutamate binding sites in brain synaptic membranes treated with Triton X-100 (1012) 74
Yoon, H., Anderson, C.D. and Anderson, B.M.
Kinetic studies of *Haemophilus influenzae* 6-phosphogluconate dehydrogenase (994) 75
Yoshida, H., see Hayashi, H. (991) 310

Yoshida, I., Koyama, T. and Ogura, K.
Protection of hexaprenyl-diphosphate synthase of *Micrococcus luteus* B-P 26 against inactivation by sulphydryl reagents and arginine-specific reagents (995) 138
Yoshida, M., see Lee, S. (984) 174
Yoshida, M., see Waga, S. (1007) 209
Yoshida, S., Saitoh, T. and Takeshita, M.
Effect of phospholipase A_2 and free fatty acids on lipid–protein interactions in long- and very-long-chain fatty acyl-CoA elongation enzyme systems of brain microsomes (1004) 239
Yoshida, S., Tamiya-Koizumi, K. and Kojima, K.
Interaction of DNA polymerases with phospholipids (1007) 61
Yoshida, S., see Setoguchi, M. (1008) 213
Yoshida, S., see Tamiya-Koizumi, K. (1002) 182
Yoshida, T., Okabayashi, H., Kamaya, H. and Ueda, I.
Saturable and unsaturable binding of a volatile anesthetic enflurane with model lipid vesicle membranes (979) 287
Yoshida, T., Taga, K., Okabayashi, H., Kamaya, H. and Ueda, I.
Changes in surface capacitance and conductance parallel to phospholipid membranes associated with phase transition: effects of halothane (984) 253
Yoshida, T., Takahashi, K. and Ueda, I.
Molecular orientation of volatile anesthetics at the binding surface: ^{1}H- and ^{19}F-NMR studies of submolecular affinity (985) 331
Yoshida, Y., see Aoyama, Y. (1001) 196
Yoshida, Y., see Aoyama, Y. (1006) 209
Yoshimura, A., Kuwazuru, Y., Sumizawa, T., Ikeda, S.-i., Ichikawa, M., Usagawa, T. and Akiyama, S.-i.
Biosynthesis, processing and half-life of P-glycoprotein in a human multidrug-resistant KB cell (992) 307
Yoshimura, S., Mizuno, Y., Kimura, K., Yatsunami, K., Fujisawa, J., Tomita, K. and Ichikawa, A.
Prostaglandin D_2 receptor of mastocytoma P-815 cells – possible regulation by phosphorylation and dephosphorylation (981) 69
Yoshinari, K., Yuasa, K., Iga, F. and Mimura, A.
A growth-promoting factor for human myeloid leukemia cells from horse serum identified as horse serum transferrin (1010) 28
Yoshioka, Y., see Araki, T. (994) 195
Youens, B.N., see Tilcock, C. (979) 208
Young, J., see Thwaites, D.T. (999) 217
Young, J.D., see Tse, C.-M. (985) 343
Yousef, L.W. and Macey, R.I.
A method to distinguish between pore and carrier kinetics applied to urea transport across the erythrocyte membrane (984) 281
Youssefian, S., see Sano, H. (1009) 35
Yu, B.-Z. and Jain, M.K.
Segregation of anionic lipophiles in bilayers monitored by binding of cationic dye NK-529 (980) 15
Yu, B.-Z., see Jain, M.K. (980) 23
Yu, C.-A., see Kriauciunas, A. (976) 70
Yu, C.-A., see Usui, S. (999) 78
Yu, L., see Kriauciunas, A. (976) 70
Yu, S.-H., Chung, W. and Possmayer, F.
Structural relationship between the two small hydrophobic apoproteins in bovine pulmonary surfactant (1005) 93
Yu, S.-H., see Chung, J. (1002) 348
Yuan, J.G., see Oka, K. (1008) 351
Yuan, Y. and Reddy, R.
Genes for human U3 small nucleolar RNA contain highly conserved flanking sequences (1008) 14
Yuasa, K., see Yoshinari, K. (1010) 28
Yubisui, T., see Shirabe, K. (1008) 189
Yudilevich, D.L., see Wheeler, C.P.D. (978) 257
Yurkiv, V.A., see Victorov, A.V. (984) 119
Yusa, T., see Tamiya, N. (995) 28

Z

Zafarullah, M., see Misra, S. (1007) 325
Zafra, F. and Giménez, C.
The role of chloride ions on the transport of glycine in plasma membrane vesicles from glial cells (979) 147
Zahn, R.K., see Kleinschmidt, A.K. (1000) 35
Zahradka, P., see Larson, D.E. (1009) 177
Żak, Z., see Zaman, K. (998) 102
Zakim, D., see Noy, N. (1003) 125
Zaman, K. and Żak, Z.
Purification and partial characterization of a cobalamin-binding protein from chicken egg yolk (998) 102
Zamecnik, P.C., see Hoagland, M.B. (1000) 103
Zanni, E.E., see Hussain, M.M. (1001) 90
Zannis, V.I., see Hussain, M.M. (1001) 90
Zannoni, D.
The respiratory chains of pathogenic pseudomonads (975) 299
Zappia, V., see Barbato, G. (991) 324
Zarkadas, C.G., see Findlay, W.A. (999) 52
Zasloff, M., see Westerhoff, H.V. (975) 361
Zazueta, C., see Chávez, E. (986) 27
Zeichner-David, M., see Slavkin, H.C. (991) 12
Zemková, H., Vyskočil, F., Tolar, M., Vlachová, V. and Ujec, E.
Single K^+ currents during differentiation of embryonic muscle cells in vitro (986) 146
Zenk, T.S., see Quintern, L.E. (1003) 121
Zerez, C.R., see Lachant, N.A. (994) 81
Zevenbergen, J.L. and Houtsmuller, U.M.T.
Effect of dietary fats on linoleic acid metabolism. A radiolabel study in rats (1002) 312
Zhang, D.-W. and Colombini, M.
Inhibition by aluminum hydroxide of the voltage-dependent closure of the mitochondrial channel, VDAC (991) 68
Zhang, L., Maiorino, M., Roveri, A. and Ursini, F.
Phospholipid hydroperoxide glutathione peroxidase: specific activity in tissues of rats of different age and comparison with other glutathione peroxidases (1006) 140
Zhang, L. and Takemoto, J.Y.
Syringomycin stimulation of potassium efflux by yeast cells (987) 171
Zhang, X.F. and Yang, F.Y.
Further study on the role of Mg^{2+} in lipid–protein interaction in reconstituted porcine heart mitochondrial H^+-ATPase (976) 53
Zhao, F.-K., see Chuang, L.F. (992) 87
Zheng, J.-H., see Shibata, H. (1007) 184
Zhiznevskaya, G.Y., see Atanasov, B.P. (998) 80
Zhou, D.M., see Jameson, D.M. (994) 187
Zhou, E.-M. and Kennedy, R.C.
Strategies for developing vaccines against acquired immunodeficiency syndrome (989) 301
Zhou, J., see Maxson, P. (977) 40
Zhou, Q., Robert, B. and Lutz, M.
Protein–prosthetic group interactions in bacterial reaction centers: resonance Raman spectroscopy of the reaction center of *Rhodopseudomonas viridis* (977) 10
Zhou, X.-g., see Lau, P.P. (1007) 73
Zhu, W., see Mow, V.C. (992) 201
Ziegler, I., see Kerler, F. (990) 15
Ziegler, K., Frimmer, M., Müllner, S. and Fasold, H.
Bile acid binding proteins in hepatocellular membranes of new-

born and adult rats. Identification of transport proteins with azidobenzamidotauro[^{14}C]cholate ([^{14}C]ABATC) (980) 161
Ziegler, K., see Elsner, R. (983) 113
Zile, M.H., see Bank, P.A. (990) 306
Zile, M.H., see Bank, P.A. (993) 1
Zillig, W., see Lanzotti, V. (1004) 44
Zilversmit, D.B., see Minnich, A. (1002) 324
Zimmer, C., see Burckhardt, G. (1009) 11
Zimmermann, U., see Arnold, W.M. (979) 142
Zimmermann, U., see Mehrle, W. (978) 267
Zimmermann, U., see Schmitt, J.J. (983) 42
Ziv, E., see Levy, E. (1005) 20
Zlatanova, J., see Srebreva, L. (1008) 346
Zmudzka, B.Z., see Nowak, R. (1008) 203
Zoccarato, F., see Deana, R. (1014) 203
Zou, Y.S., see Schuurmans Stekhoven, F.M.A.H. (982) 103
Zs.-Nagy, I., see Nokubo, M. (981) 303
Zucchelli, G., see Jennings, R.C. (975) 29
Zumo, L., see Bakó, É. (1013) 300
Zwaal, R.F.A., see Comfurius, P. (983) 212
Zwaal, R.F.A., see Middelkoop, E. (981) 151

Subject Index

Volumes 973–1014

1989

A

[A]α chain
Fibrinogen; Calcium binding; Surface labeling; Crosslinking (Apap-Bologna, A. (995) 70)

Absorption
Cholesterol; Cholesteryl ester; Acyl-CoA : cholesterol acyltransferase; (Rat) (Williams, R.J. (1003) 213)

Absorption/circular dichroism spectrum
Bilirubin; Poly(L-lysine); Induced circular dichroism; Dimer/oligomer; Alpha helix conformation (Bouvier, M. (991) 303)

Absorption kinetics
β-Alanine; β-Amino acid; γ-Amino acid; Michaelis-Menten absorption; (Rat intestine) (Merino, M. (986) 1)

Absorption spectroscopy
Chlorophyll protein; Chloroplast; Electron microscopy; Fluorescence emission; Immunocytochemistry; P-700 (Simpson, D.J. (975) 164)

A21978C
Lipopeptide antibiotic; LY146032; Calcium dependence; Daptomycin; Dimyristoylphosphatidylcholine (Lakey, J.H. (985) 60)

A10 cell line
Chloride–bicarbonate exchange; Chloride radiolabel; (Vascular smooth muscle) (Korbmacher, C. (985) 67)

Acetaldehyde
Carnitine palmitoyltransferase I; Malonyl-CoA; Ethanol; (Rat hepatocyte) (Guzmán, M. (1002) 405)

Acetate metabolism
Adenosine production; Mitochondrial ATP/ADP-translocator; AMP transport; Metabolic compartmentalization; (Rat heart) (Kiviluoma, K.T. (974) 274)

Acetoacetate
HMG-CoA lyase; Acetyl-CoA; Mevalonate catabolism; (*P. mevalonii*) (Scher, D.S. (1003) 321)

Acetylated LDL
Scavenger receptor; Maleylated bovine serum albumin; Liver metabolism; Macrophage; Endocytosis; Receptor-mediated endocytosis; (Rat) (Takata, K. (984) 273)

Acetylated low density lipoprotein receptor
Atherosclerosis; LDL; Lipoprotein acetylation; Macrophage stimulation; Scavenger receptor (Leake, D.S. (1005) 196)

Acetylcholine receptor
Channel conformation; Model membrane; Noncompetitive blocker (Furois-Corbin, S. (984) 339)

Neurotoxin binding site; Thermal denaturation; Structure–function correlation; Cholesterol; Membrane fluidity (Artigues, A. (985) 325)

Vesicle; Micelle; Octyl glucoside; Phosphatidylcholine; Protein reconstitution; Protein purification; Nicotinic acetylcholine receptor (Schürholz, T. (986) 225)

Nicotinic acetylcholine receptor; Ethanol; Cation flux; Desensitization; (*Torpedo* electroplax) (Forman, S.A. (987) 95)

Ethanol; Acetylcholinesterase; Neurotransmission; (*T. californica*) (Baker, G.M. (992) 333)

Acetylcholinesterase
Rose Bengal; Intensity; Wavelength; Photosensitization; Red blood cell (Fluhler, E.N. (990) 269)

Ethanol; Acetylcholine receptor; Neurotransmission; (*T. californica*) (Baker, G.M. (992) 333)

Smooth muscle; (Rat bladder) (Skau, K.A. (995) 195)

1-Bromo-2-[^{14}C]pinacolone; Active site directed inactivator; 5-Trimethylammonio-2-pentanone; Diisopropyl fluorophosphate, ^{3}H-labeled (Cohen, S.G. (997) 167)

Monoclonal antibody; Ligand; Indophenyl acetate; 1-Methyl-2-hydroxyiminomethylpyridinium chloride (Wolfe, A.D. (997) 232)

Cholinesterase; Ligand binding; Inhibitor; Enzyme denaturation (Payne, C.S. (999) 46)

Acetyl-CoA
Acetyl-CoA hydrolase; Sulfhydryl group; Chemical modification; (Rat liver) (Nakanishi, Y. (996) 209)

HMG-CoA lyase; Acetoacetate; Mevalonate catabolism; (*P. mevalonii*) (Scher, D.S. (1003) 321)

Lung surfactant; mRNA; Fatty-acid synthase; ATP citrate lyase; Malic enzyme; (Rat lung) (Batenburg, J.J. (1006) 329)

Acetyl-CoA hydrolase
Acetyl-CoA; Sulfhydryl group; Chemical modification; (Rat liver) (Nakanishi, Y. (996) 209)

***N*-Acetylhistamine**
Ascorbate; Histamine (Uchida, K. (991) 377)

Acetyl hydrolase
PAF; Mast cell (Triggiani, M. (1006) 41)

***N*-Acetylimidazole**
Phosphate transport; Sodium ion cotransport; Proximal tubule; (OK cell) (Wuarin, F. (981) 185)

N^1-Acetylspermidine
Colon cancer; Dimethylhydrazine; Corn oil; Spermidine N^1-acetyltransferase; (Rat colon) (Halline, A.G. (990) 280)

Dimethylhydrazine; Cancer; Spermidine N^1-acetyltransferase; Difluoromethylornithine; (Rat colon) (Halline, A.G. (992) 106)

N^1-Acetylspermine
Peroxisome; Polyamine oxidase; Spermine (Hayashi, H. (991) 310)

Acetyltransferase
PAF; Arachidonic acid; (Bovine neutrophil) (Remy, E. (1005) 87)

Acid ceramidase
Farber disease; Sphingomyelinase; Glycosphingolipid hydrolase; Lysosomal enzyme; (Human spleen) (Al, B.J.M. (1004) 245)

Acid cholesteryl ester hydrolase
Neutral cholesteryl ester hydrolase; Cholesteryl oleyl ether; Esterastin; (Aortic smooth muscle cell) (Morin, R.J. (1004) 139)

Acidic lipid
Spin label; Interdigitation; Lipid bilayer; Phase transition; Polymyxin B; Polymyxin B nonapeptide (Boggs, J.M. (985) 199)

Acidophilic bacterium
Restriction endonuclease; Enzyme purification; Isoschizomer; (*A. facilis*) (Dou, D. (1009) 83)

Acid phosphatase
Derepression; Kinetics; (*Y. lipolytica*) (Moran, A. (990) 288)

Phosphotyrosyl-protein phosphatase; Phosphorylation; Dephosphorylation; (Wheat seedlings) (Cheng, H.-F. (998) 271)

Acid secretion
Calcium ion, cytosolic; cyclic AMP; Potassium ion channel; (Rat cultured parietal cell) (Ueda, S. (1012) 254)

Acid sensitivity
Immunoliposome; Endosome; Endocytosis; Diphtheria toxin (Collins, D. (987) 47)

Acid stable
Cytochrome *c*-552; High redox potential; (*T. ferrooxidans*) (Sato, A. (976) 129)

Acrosin
C1 esterase; Substrate specificity; *p*-Nitrate (Skoog, M.T. (996) 89)

Actin
Protein 4.1; Spectrin; Hemin; Fluorescence; Circular dichroism (Solar, I. (983) 199)

Vitamin D binding protein (Gc); Gelsolin; Blood; (Human) (Ohsawa, M. (992) 195)

Cytoskeletal assembly; Macrophage; Phorbol ester (Hartwig, J.H. (1010) 64)

Actin, F-
Cell volume; Potassium induced swelling; Potassium ion flux; Lithium ion transport (Kleinzeller, A. (1014) 40)

Actin, G-
Tyrosine hydroxylase; Cytoplasmic enyzme; Cytoskeletal element; Catecholamine synthesis (Morita, K. (993) 21)

Actin, γ-
Pseudogene; Repetitive element; (Mouse) (Yoda, K. (1009) 194)

Actin, Mg-ADP-
Actin preparation; Actin polymerization (Gershman, L.C. (995) 109)

Actin–myosin interaction
Caldesmon; Ghost fiber; Polarized fluorescence (Nowak, E. (999) 289)

Actin polymerization
Actin preparation; Actin, Mg-ADP- (Gershman, L.C. (995) 109)

Actin preparation
Actin polymerization; Actin, Mg-ADP- (Gershman, L.C. (995) 109)

Action potential
Cardiac muscle; Tolbutamide; Glibenclamide; Diazoxide; Potassium ion channel; ATP sensitive potassium ion channel; (Rat) (Faivre, J.-F. (984) 1)

Activating enzyme
Iron protein; Nitrogenase; Nitrogen fixation; (*A. brasilense*) (Ljungström, E. (994) 210)

Activation
CF_1; Thylakoid; Chloroplast ATPase; Sulfite; Bound ADP (Larson, E.M. (973) 78)

Pyridoxal kinase; Metallothionein (Churchich, J.E. (996) 181)

Bile salt dependent lipase; Bile salt; Kinetics; Boronic acid; Inhibition; (Human) (Abouakil, N. (1004) 215)

Activation energy
ESR Signal II_s; Manganese multiline; g tensor (= 4.1); Charge recombination; (Spinach) (Inui, T. (973) 147)

Active nucleoside transport
Uridine transport; Brush-border membrane vesicle; Sodium ion dependence; (Rabbit intestine) (Jarvis, S.M. (979) 132)

Active site
Endopeptidase; Histidine; Substrate specificity; (Maize root) (Batt, R. (990) 109)

Oxazolone; 4-Alkylidene oxazolone; Hydrolase; Fluorescence (Baese, H.-J. (990) 113)

NMR; Phospholipase A_2 protection; Transferred NOE (Williamson, M.P. (997) 9)

Porphyrin; Metalloporphyrin; Ferrochelatase; (Mouse) (Dailey, H.A. (999) 7)

Pancreatic lipase; Acyl enzyme; Lysine (Kaimal, T.N.B. (999) 331)

Active site directed inactivator
Acetylcholinesterase; 1-Bromo-2-[^{14}C]pinacolone; 5-Trimethylammonio-2-pentanone; Diisopropyl fluorophosphate, ^{3}H-labeled (Cohen, S.G. (997) 167)

Active site label
β-Hydroxy-β-methylglutaryl-CoA reductase; Substrate inactivation; Mevinolin (Dugan, R.E. (998) 91)

Active site probe
ATPase, Na^+/K^+-; Ethylenediamine (Schuurmans Stekhoven, F.M.A.H. (982) 103)

Active transport
Lens; Polyamine uptake; Polyamine metabolism; (Rat) (Maekawa, S. (993) 199)

Nuclear location signal; Signal sequence; Nuclear protein localization; Nuclear pore (Roberts, B. (1008) 263)

Activity
Diabetes mellitus; Fluorescence; Nonenzymatic glycosylation (Hall, P.K. (993) 217)

Actomyosin
Tropomyosin; Caldesmon; Platelet; Smooth muscle (Onji, T. (999) 248)

Acute phase response
Glucose-regulated gene (grp78); hsp70 gene family; Liver regeneration; (Rat liver) (Krawczyk, Z. (1009) 237)

Acyl ACP site
Enoyl reductase; Phenyl glyoxal; (*B. napus*) (Cottingham, I.R. (995) 273)

Acylcarnitine
Carnitine; Lymphocyte; Mononuclear phagocyte; (Human) (Cress, A.P. (992) 135)

Carnitine; Ketogenesis; Fatty acid metabolism; (Rat hepatocyte) (Brass, E.P. (1003) 209)

Acyl chain
Phospholipid bilayer; Phase transition; Potassium thiocyanate; Interdigitated bilayer (Cunningham, B.A. (984) 109)

Acyl chain composition
Phospholipid acyl chain; Ethanolamine glycerophospholipid; Choline glycerophospholipid; Dietary modification (Yeo, Y.K. (1001) 25)

Acyl-CoA
Enzyme kinetics; Membrane-bound enzyme; Amphiphilic substrate; Enzyme purification; Acyl-CoA elongase (Bessoule, J.-J. (983) 35)

Fatty acid; Acyl-CoA elongase; Lipid synthesis; (*A. porrum*) (Lessire, R. (1006) 35)

Coenzyme A; Heart muscle microsome; Lysophosphatidylcholine; Phosphatidylcholine; Transacylase (Sanjanwala, M. (1006) 203)

Riboflavin deficiency; Mitochondrion; Peroxisome; Flavoprotein; Organic acid; (Rat) (Veitch, K. (1006) 335)

Acyl-CoA : cholesterol acyltransferase
Squalene; Cholestyramine; Lanosterol demethylation; Hydroxymethylglutaryl-CoA; (Rat) (Strandberg, T.E. (1001) 150)

Cholesterol; Cholesteryl ester; Absorption; (Rat) (Williams, R.J. (1003) 213)

Simvastatin; Cholesterol esterification; MHG-CoA reductase inhibitor; (Rabbit) (Ishida, F. (1004) 117)

J774 macrophage; LDL; Cholesterol esterification (Khoo, J.C. (1012) 215)

Acyl-CoA elongase
Enzyme kinetics; Membrane-bound enzyme; Amphiphilic substrate; Enzyme purification; Acyl-CoA (Bessoule, J.-J. (983) 35)

Fatty acid; Acyl-CoA; Lipid synthesis; (*A. porrum*) (Lessire, R. (1006) 35)

Acyl-CoA hydrolase
Propionyl-CoA thioesterase; Fatty acid metabolism; Mitochondrion; (Rat brown adipose) (Alexson, S.E.H. (1005) 13)

Acyl-CoA, long chain
mitochondrial membrane potential; L-Carnitine; Mitochondrial calcium (Di Lisa, F. (973) 185)

Acyl-CoA:lysophospholipid acyltransferase
Transacylation; Ethanolamine plasmalogen; 1,2-Diacylglycero-3-phosphoethanolamine; Polyunsaturated fatty acid; (Rat brain microsome) (Masuzawa, Y. (1005) 1)

Acyl-CoA species
Type II cell; Lung surfactant; Glycerol 3-phosphate acylation; (Rat lung) (Den Breejen, J.N. (1002) 277)

Acyldihydroxyacetone phosphate
Glycerone phosphate acyltransferase; Alkyldihydroxyacetone-phosphate synthase; Transmembrane localization; (Rat liver peroxisomes) (Hardeman, D. (1006) 1)

Acyl enzyme
Pancreatic lipase; Active site; Lysine (Kaimal, T.N.B. (999) 331)

1-Acylglycerophosphocholine acyltransferase
Proliferator; Peroxisomal β-oxidation; (Rat liver) (Kawashima, Y. (1005) 123)

Acylglycerophosphocholine acyltransferase
Peroxisome proliferator; Enzyme induction; (Rat kidney) (Kawashima, Y. (1006) 214)

1- and 2-Acyllysophosphatidylcholine
Lysophosphatidylcholine; Phosphatidylcholine metabolism; Glycerophosphocholine synthesis (Morash, S.C. (1004) 221)

Acylornithine
Phosphatidylethanolamine; Polar lipid; Fatty acid; (*P. cepacia*) (Cox, A.D. (1001) 60)

Acyl species
Glycerophosphate acylation; Phosphatidic acid; CDP-diacylglycerol; Phosphatidylglycerol; (Rat liver mitochondria) (Rüstow, B. (1002) 261)

Adenine analog
Alkylating tRNA derivative; Phenylalanyl-tRNA synthetase; Chlorotetrolic acid ester; Nucleic acid–protein crosslinking (Roques, P. (1009) 99)

Adenine nucleotide
Mitochondrion; EDTA; EGTA; P_i-induced swelling; (Rat liver) (Lund, P. (975) 330)

Transferrin; Iron release; Platelet; (Human) (Brieland, J.K. (978) 191)

Adenine nucleotide content
ATP; ADP; Osmoregulation; Glycerol; (Alga); (*Dunaliella*) (Marengo, T. (976) 102)

Adenine nucleotide translocator
Duramycin; Mitochondrion; Inner membrane permeability; Volume change; (Rat heart) (Sokolove, P.M. (983) 15)

Plasticizer; Di(2-ethylhexyl) phthalate; Calcium ion transport; Mitochondrion; (Rat liver) (Kora, S. (985) 286)

Adenine phosphoribosyltransferase
Human malaria parasite; Purine salvage; (*P. falciparum*) (Queen, S.A. (996) 160)

Adenocarcinoma
Glycolipid; Monoclonal antibody; Colon tumor; (Rat) (Thurin, J. (1002) 267)

Adenosine
Nucleoside transport protein; Photoaffinity labeling; Nitrobenzylthioinosine; (Calf lung) (IJzerman, A.P. (979) 153)

Plasma membrane; Membrane viscosity; Receptor display; Neutrophil (Cronstein, B.N. (987) 176)

Phosphoinositide; Adipocyte; Oxytocin; Catecholamine; Insulin (Lee, H.-M. (1013) 73)

Adenosine kinase deficient cell
Pyrazofurin; 6-Azauridine; Drug resistance; Orotidine-5′-phosphate decarboxylase; Osteoblastic cell; (Mouse) (Beidler, D.R. (1014) 101)

Adenosine production
mitochondrial ATP/ADP-translocator; AMP transport; Acetate metabolism; Metabolic compartmentalization; (Rat heart) (Kiviluoma, K.T. (974) 274)

***S*-Adenosylhomocysteinase**
Coenzyme; Spectroscopy; (Rat liver) (Gomi, T. (994) 172)

***S*-Adenosyl-L-methionine**
Plasma membrane; Leukemia; HL-60 cell (Duerre, J.A. (985) 211)

Sodium poly(styrene sulfonate); Binding interaction; Ultrafiltration; Stacking (Barbato, G. (991) 324)

Adenovirus E1A gene
Cell-free transcription; Footprint analysis; Transcriptional control (Shibata, H. (1007) 184)

Adenovirus type 12-transformed cell
DNA methylation; Gene expression; Restriction endonuclease; DNAase I hypersensitivity; Southern blotting (Bartnik, E. (1007) 228)

Adenylate cyclase
Mono(ADP-ribosyl)ation; Mono(ADP-ribosyl)transferase; Epinephrine; GTP binding protein; (Human platelet membrane) (Tanuma, S. (1010) 246)

Brush-border membrane; Basal lateral membrane; Cholera toxin; ADP-ribosylation; GTP binding protein; (Rabbit intestine) (Longbottom, D. (1014) 289)

Adenylate kinase
Hexokinase; Tumor cell mitochondria; Glycolysis; Oxidative phosphorylation; (HT29 cell) (Gauthier, T. (975) 231)

Adenylosuccinase
Adenylosuccinate lyase; Purine metabolism; Succinylpurine; Mental retardation; Autism; (Human) (Barshop, B.A. (999) 19)

Adenylosuccinate lyase
Adenylosuccinase; Purine metabolism; Succinylpurine; Mental retardation; Autism; (Human) (Barshop, B.A. (999) 19)

Adenylyl cyclase
Olfactory second messenger; (Rat); (Frog) (Lazard, D. (1013) 68)

Adherence inhibiting factor
Neutrophil adherence; Platelet granule; Protein purification; (Guinea pig) (Iwabuchi, K. (999) 183)

Adhesion
Chromaffin granule; Lysis; Hyperosmotic relaxation lysis; Intragranular vesicle; Freeze-fracture (Engel, J. (985) 111)

Adipocyte
Histone; Insulin-like effect; Glucose incorporation; Glucose phosphorylation; (Rat) (McCroskey, M.C. (1011) 212)

Phosphoinositide; Adenosine; Oxytocin; Catecholamine; Insulin (Lee, H.-M. (1013) 73)

Adipose tissue
Hormone sensitive lipase; mRNA; cDNA; Lipase; (Human) (Holm, C. (1006) 193)

Adipsin
Insulin; 3T3-L1 adipocyte (Kitagawa, K. (1014) 83)

ADP
ATP; Adenine nucleotide content; Osmoregulation; Glycerol; (Alga); (*Dunaliella*) (Marengo, T. (976) 102)

AMP; ATP; Spin label (Ubom, G.A. (997) 1)

ADP binding, high affinity
ATPase, F_1-; Inhibitory site; Nucleotide binding; (Bovine heart mitochondria) (Milgrom, Y.M. (975) 50)

ADP-effected aggregation
Epinephrine-induced aggregation; Platelet aggregation inhibitor; Carbamoylpiperidinoalkane; *N*-Alkylnipecotoylpiperazine; Structure–activity relationship; (Human blood) (Petrusewicz, J. (983) 161)

ADP-ribosylation
Brush-border membrane; Basal lateral membrane; Cholera toxin; GTP binding protein; Adenylate cyclase; (Rabbit intestine) (Longbottom, D. (1014) 289)

Adrenal cortex
Aldosterone; Atrial natriuretic peptide; cyclic GMP; (Chicken) (Rosenberg, J. (1014) 189)

Adrenaline melanin
Dopamine melanin; Melanin-copper complex; Pyrolysis GC-MS; Infrared ESR; Catecholamine (Stępień, K.B. (997) 49)

Adrenaline metabolism
Adrenochrome rearrangement; Adrenolutin; Dihydroxyindole; Adrenochrome dimer; Dihydroxyisatin; Metal ion (Palumbo, A. (990) 297)

Adrenal medulla
Exocytosis; Stimulus secretion; Chromaffin granule; Protein phosphorylation; Protein kinase C (Brocklehurst, K.W. (979) 157)

Adrenal steroid
11-Hydroxysteroid dehydrogenase; Renal epithelial cell line; Corticosteroid metabolism; Corticosterone; (Monkey); (Dog); (Pig) (Korbmacher, C. (1010) 311)

β-Adrenergic receptor
Electropermeabilization; Plasma membrane; cyclic AMP; C6 glioma cell; GTP (Volker, T.T. (984) 243)

Agonist binding; Plasma membrane barrier; Mononuclear leukocyte; (Human) (Fratelli, M. (1012) 178)

ras gene product; cyclic AMP metabolism; Cell proliferation; Gene expression; (Mouse cell) (Davies, S.-A. (1013) 173)

Adrenic acid
Lignoceryl-CoA ligase; Peroxisomal β-oxidation; Erucic acid; X-linked adrenoleukodystrophy; Neonatal adrenoleukodystrophy; (Human fibroblast) (Christensen, E. (1002) 79)

Adrenochrome dimer
Adrenochrome rearrangement; Adrenolutin; Dihydroxyindole; Dihydroxyisatin; Metal ion; Adrenaline metabolism (Palumbo, A. (990) 297)

Adrenochrome rearrangement
Adrenolutin; Dihydroxyindole; Adrenochrome dimer; Dihydroxyisatin; Metal ion; Adrenaline metabolism (Palumbo, A. (990) 297)

Adrenodoxin
Aromatic region; NMR, ^{1}H- (Greenfield, N.J. (995) 246)

Cytochrome P-450_{SCC}; Crosslinking; Adrenodoxin binding site; Ternary complex (Turko, I.V. (996) 37)

Adrenodoxin reductase; Cytochrome P-450_{SCC}; (Bovine adrenocortex): (Human placenta) (Usanov, S.A. (998) 189)

Adrenodoxin binding site
Cytochrome P-450_{SCC}; Adrenodoxin; Crosslinking; Ternary complex (Turko, I.V. (996) 37)

Adrenodoxin reductase
Adrenodoxin; Cytochrome P-450_{SCC}; (Bovine adrenocortex): (Human placenta) (Usanov, S.A. (998) 189)

Adrenolutin
Adrenochrome rearrangement; Dihydroxyindole; Adrenochrome dimer; Dihydroxyisatin; Metal ion; Adrenaline metabolism (Palumbo, A. (990) 297)

Adriamycin
Targeting chemotherapy; Antitumor agent; Liposome stability; Cholesterol; Dipalmitoylphosphatidylcholine (Tomita, T. (978) 185)

Anthracycline; Phospholipid; Liposome; Equilibrium binding; Fluorescence spectroscopy (Burke, T.G. (982) 123)

NAD dimer; Photooxidation; Semiquinone radical (Carelli, V. (991) 25)

Radical formation; Paraquat; Breast tumor cell; (Human) (Sinha, B.K. (1010) 304)

Erythroid differentiation; Globin synthesis; Heme synthesis; (Human erythroleukemic cell) (Trentesaux, C. (1012) 161)

Adsorption
Proteoliposome; Wheat germ agglutinin; Liposome integrity; Glycophorin (Hutchinson, F.J. (987) 212)

Adsorption chromatography
Plastocyanin; Cytochrome *c*-553; Cyanobacteria; Photosynthesis (Tan, S. (973) 111)

Adsorption isotherm
Anesthesia theory; Phospholipid vesicle membrane; Partition coefficient (Yoshida, T. (979) 287)

Adsorption protein
Pore protein; Phage fd (Glaser-Wuttke, G. (985) 239)

Adult respiratory distress syndrome
Pulmonary surfactant; Neutrophil elastase (Pison, U. (992) 251)

Aerobic hydrogen bacterium
Hydrogenase; Antibody; Hydrogen bacteria (Lorenz, B. (995) 1)

Affinity chromatography
Erythrocyte membrane; Band 3 protein; Sulfhydryl reagent; (Human) (Werner, P.K. (982) 309)

Dopamine D2 receptor; Receptor purification; Photoaffinity labeling; Membrane receptor (Clagett-Dame, M. (986) 271)

Affinity chromatography
Lectin purification; β-Galactoside binding; (Thigh muscle); (*R. tigerina*) (Shet, M.S. (991) 465)

Nitrogen fixation; Glutamine synthetase; (*R. rubrum*) (Soliman, A. (994) 138)

Thymidine kinase; Thymidylate kinase; (Human placenta) (Tamiya, N. (995) 28)

Affinity labeled tracer
Kallikrein; Amino terminal sequence; Cleavage preference; Radioimmunoassay; (Rat plasma) (Paquin, J. (999) 103)

Affinity labeling
Fatty acid synthase; Enzyme kinetics; Enzyme inactivation (Tian, W.-X. (998) 310)

Affinity purified antibody
Prostaglandin-E_2 9-ketoreductase; Enzyme purification; Radioimmunoassay; (Swine kidney) (Krüger, S. (1001) 9)

Age
Bone mineral; Crystallinity; Crystal disorder (Matsushima, N. (992) 155)

Aggregation
Platelet membrane; Detergent; Cell lysis; Leakage; Component solubility; Electron microscopy; (Human blood) (Shiao, Y.-J. (980) 56)

Band 3 protein; Melittin; Polylysine; Zinc ion; Erythrocyte membrane (Clague, M.J. (980) 93)

Platelet membrane; Ganodermic acid S; Phosphoinositide metabolism; Electron microscopy; (Human blood) (Wang, C.-N. (986) 151)

Aging
Erythrocyte membrane; Proteolysis (Gaczyńska, M. (981) 173)

Gastric mucosal regeneration; Tyrosine kinase; Proto-oncogene (Majumdar, A.P.N. (992) 35)

Collagen synthesis; In vitro; Tissue explant; Intestine; (Rat) (Martens, M.F.W.C. (993) 252)

α-Crystallin; Peptide antiserum; (Bovine lens) (Takemoto, L. (995) 259)

Dolichol; Dolichyl phosphate; Polyisoprenoid; Cholesterol; (Mouse kidney); (Mouse liver) (Crick, D.C. (1004) 180)

Inositol 1,4,5-trisphosphate; Calcium ion (Maki, T. (1014) 73)

Agonist
Lysosomal hydrolase; Endothelial cell; Vascular cell; (Human) (Morgan, D.M.L. (1010) 184)

Agonist binding
β-Adrenergic receptor; Plasma membrane barrier; Mononuclear leukocyte; (Human) (Fratelli, M. (1012) 178)

Ajoene
Gastric lipase; Enzyme inhibition; (Human) (Gargouri, Y. (1006) 137)

Alamethicin
Spin label; Voltage-dependent channel; Membrane–peptide interaction; Thylakoid; ESR (Wille, B. (986) 47)

Alanine
Amino acid transport; Basic amino acid transport; Lysine; Sodium ion dependence; System y^+; (Guinea pig placenta) (Wheeler, C.P.D. (978) 257)

β-Alanine
β-Amino acid; γ-Amino acid; Michaelis-Menten absorption; Absorption kinetics; (Rat intestine) (Merino, M. (986) 1)

Alanine oxidation
Brown adipose tissue; Glucose uptake; Alanine uptake; Glucose oxidation; (Rat) (López-Soriano, F.J. (1010) 338)

Alanine transport
Brush-border membrane; Intestinal transport; Sodium ion cotransport; Proline transport; (*A. anguilla*) (Vilella, S. (984) 188)

Alanine uptake
Brown adipose tissue; Glucose uptake; Glucose oxidation; Alanine oxidation; (Rat) (López-Soriano, F.J. (1010) 338)

Albinism
Tyrosinase; Melanin synthesis; Nucleotide sequence; (Human Liver) (Kikuchi, H. (1009) 283)

Albumin
Propionic acid-diphenylhexatriene; Diphenylhexatriene; Fluorescence probe; Membrane probe; Fatty acid; Fatty acid binding protein (Trotter, P.J. (982) 131)

Electrofusion; Hypo-osmolar medium; Osmotic pressure shock; Sorbitol; Divalent cation; Hybrid; (Mammalian cell) (Schmitt, J.J. (983) 42)

Fatty acid; Erythrocyte membrane; Transport; Flip-flop; (Human blood) (Bröring, K. (986) 321)

Bilirubin; Jaundice; Anion transport; Hepato-renal syndrome; Protein binding; (Rat) (Sugi, K. (987) 217)

Gene expression; α-Fetoprotein; Thyroid hormone; Triiodothyronine; (Human hepatoma cell) (Conti, R. (1008) 315)

Albumin–bile salt interaction
Fluorescence titration; Bile salt; Binding; Thermodynamics (Pico, G.A. (999) 128)

Albumin-enzyme conjugate
Cholinesterase; Isoenzyme; (Human) (Masson, P. (998) 258)

***n*-Alcohol**
Choline uptake; γ-Aminobutyric acid; Synaptosome; Synaptic plasma membrane; Membrane potential (Mrak, R.E. (984) 97)

Phospholipid; Melittin; Permeability; NMR; Vesicular membrane (Kaszuba, M. (985) 106)

Alcohol dehydrogenase
Catalytic selectivity; Water activity; Protein conformation; (Yeast) (Xu, Z.-F. (998) 251)

Alcoholic fermentation
Crabtree effect; Yeast; Pyruvate; Pyruvate decarboxylase; (*Saccharomyces*); (*Candida*) (Van Urk, H. (992) 78)

Aldehyde dehydrogenase
Benzaldehyde; Peroxidatic aldehyde; (Mouse stomach) (Algar, E.M. (995) 168)

Thiol-modifying reagent (Loomes, K.M. (998) 1)

Aldehyde modified protein
Nonenzymatic glycosylation; THP-1; Leukemia cell; Scavenger receptor (Takata, K. (986) 18)

Aldehyde reductase
Aldose reductase; Aldose reductase inhibitor; (Rat testis) (Kawasaki, N. (996) 30)

Aldo-keto reductase
Lens; (*C. dromedarius*) (Del Corso, A. (993) 116)

Aldolase
recombinant DNA; Isozyme gene; Expression plasmid; Class I; Glycolytic pathway; Aldolase gene; (Human gene); (*E. coli* host) (Sakakibara, M. (1007) 334)

Aldolase gene
recombinant DNA; Isozyme gene; Expression plasmid; Class I; Aldolase; Glycolytic pathway; (Human gene); (*E. coli* host) (Sakakibara, M. (1007) 334)

Aldolase–myofibril interaction
Calcium binding; Muscle myofibril; Troponin (Harris, S.J. (999) 95)

Aldose reductase
Aldehyde reductase; Aldose reductase inhibitor; (Rat testis) (Kawasaki, N. (996) 30)

Aldose reductase inhibitor
Aldose reductase; Aldehyde reductase; (Rat testis) (Kawasaki, N. (996) 30)

Aldosterone
Adrenal cortex; Atrial natriuretic peptide; cyclic GMP; (Chicken) (Rosenberg, J. (1014) 189)

Aldosterone synthesizing enzyme
Cytochrome $P\text{-}450_{11\beta}$; Liposome; Steroidogenesis; (Bovine adrenocortical mitochondria) (Ikushiro, S.-i. (984) 50)

Alga
Chloroplast; Glycerol-3-phosphate dehydrogenase; Redox balance; Starch degradation (Klöck, G. (991) 347)

Alkaline phosphatase
Apical membrane; *p*-Aminohippurate carrier; Phase state; Lipid bilayer; Campbell mutation; (Rat) (Bresler, V.M. (982) 288)

Calmodulin; Calcium ionophore; Calcium metabolism; 1,25-Dihydroxyvitamin D-3; (Rat organs) (Komoda, T. (990) 165)

Enzyme kinetics; (*D. discoideum*) (Bhanot, P. (995) 291)

dibutyryl cyclic AMP; Prednisolone; Enzyme induction; (Human fetal liver cell) (Sorimachi, K. (1010) 72)

Hyperosmolality; Sodium butyrate; Enzyme induction; (Cultured colon cancer cell) (Herz, F. (1013) 259)

Alkaline phosphatase isoenzyme
Orellanine; Epithelial cell culture; ($LLC\text{-}PK_1$); (Caco-2) (Ruedl, C. (991) 280)

Alkalinization
pH sensitivity; Fructose 2,6-bisphosphate; Thrombin; Human platelet (Vasta, V. (1011) 165)

pH, cytoplasmic; Epidermal growth factor; Thyroid-stimulating hormone; (Cultured porcine thyroid cell) (Takasu, N. (1012) 117)

Alkalophile
ATPase; Membrane bound enzyme (Koyama, N. (980) 255)

Alkane–membrane interaction
Anesthesia; 'Cut-off' effect; NMR, ^{2}H- (Pope, J.M. (980) 69)

***n*-Alkanol**
Dielaidoylphosphatidylethanolamine; Phase behavior; Hexagonal H_{II} phase; NMR, ^{31}P-; Spectrophotometry (Veiro, J.A. (979) 251)

Alkenylglycerophosphocholine hydrolase
Alkenylhydrolase; Alkenylglycerophosphoethanolamine hydrolase; Purification; (Rat liver); (Microsome) (Jurkowitz-Alexander, M. (1002) 203)

Alkenylglycerophosphoethanolamine hydrolase
Alkenylhydrolase; Alkenylglycerophosphocholine hydrolase; Purification; (Rat liver); (Microsome) (Jurkowitz-Alexander, M. (1002) 203)

Alkenylhydrolase
Alkenylglycerophosphocholine hydrolase; Alkenylglycerophosphoethanolamine hydrolase; Purification; (Rat liver); (Microsome) (Jurkowitz-Alexander, M. (1002) 203)

Alkoxyl radical
tert-Butylhydroperoxide; Peroxyl radical; Oxidative stress; (Human erythrocyte) (Van der Zee, J. (980) 175)

Alkylamine
Protonophore; Antimalarial drug; Chloroquine; (*E. coli*) (Nissani, E. (978) 293)

Alkylating tRNA derivative
Phenylalanyl-tRNA synthetase; Chlorotetrolic acid ester; Adenine analog; Nucleic acid–protein crosslinking (Roques, P. (1009) 99)

Alkylation
β-Tubulin; Antimitotic drug; 2,4-Dichlorobenzyl thiocyanate; Sulfhydryl group (Bai, R.-l. (994) 12)

Alkyldihydroxyacetone-phosphate synthase
Glycerone phosphate acyltransferase; Acyldihydroxyacetone phosphate; Transmembrane localization; (Rat liver peroxisomes) (Hardeman, D. (1006) 1)

4-Alkylidene oxazolone
Oxazolone; Hydrolase; Active site; Fluorescence (Baese, H.-J. (990) 113)

***N*-Alkylmaleimide**
Sulfhydryl; Sorbitol dehydrogenase; Interaction; Nonpolar (Beier, K.H. (997) 236)

Alkylmethylglycerophosphocholine
Antineoplastic phospholipid; PAF analog; Plasma membrane (Vallari, D.S. (1006) 250)

***N*-Alkylnipecotoylpiperazine**
Epinephrine-induced aggregation; ADP-effected aggregation; Platelet aggregation inhibitor; Carbamoylpiperidinoalkane; Structure–activity relationship; (Human blood) (Petrusewicz, J. (983) 161)

Carbamoylpiperidinoalkane; Platelet aggregation inhibitor; Serotonin release inhibitor; Platelet factor 4 release inhibitor; Structure-activity relationship; Dense body; α-Granule; Platelet plasma membrane (Dillingham, E.O. (990) 128)

Alkyl pyranoside
n-Octyl 1-*O*-β-D-glucopyranoside; Phase behavior; Liquid crystal; X-ray diffraction (Chung, Y.J. (985) 300)

Alkylthioacetic acid
Fatty acid metabolism; (Hepatocyte) (Skrede, S. (1005) 296)

L-Alloisoleucine
Transamination; Oxidative decarboxylation; L-Isoleucine; (Rat muscle) (Schadewaldt, P. (992) 115)

Allophycocyanin-B deletion
Phycobilisome mutant; Energy transfer (Maxson, P. (977) 40)

Allosteric kinetics
Pyruvate kinase; pH effect; (*P. blakesleeanus*) (De Arriaga, D. (998) 221)

Almitrine
Oxidative phosphorylation; Mitochondrial ATPase; Uncoupler; Inhibitor; (Yeast) (Rigoulet, M. (975) 325)

Alpha chain
Hemoglobin; Hemoglobin Nouakchott; Hemoglobin variant; Hydrophobicity; HPLC; (Human) (Wajcman, H. (998) 25)

Alpha-helical peptide
X-ray diffraction; Lipid bilayer; Membrane structure; Peptide–lipid interaction; Dipalmitoylphosphatidylcholine (Huschilt, J.C. (979) 139)

Amphipathic antimicrobial peptide; Fluorescent peptide; Pyrenylalanine; Tryptophan fluorescence; Peptide–lipid interaction; Peptide–peptide interaction (Lee, S. (984) 174)

Alpha helix conformation
Bilirubin; Poly(L-lysine); Induced circular dichroism; Dimer/oligomer; Absorption/circular dichroism spectrum (Bouvier, M. (991) 303)

Alternative splicing
Calcitonin; CGRP-I; mRNA; Gene expression; (Human) (Bovenberg, R.A.L. (1008) 223)

Aluminium hydroxide
VDAC; Mitochondrion; Voltage dependence; Mitochondrial channel; Outer membrane (Zhang, D.-W. (991) 68)

Aluminum adsorption
Stern model; Aluminum toxicity (Akeson, M.A. (986) 33)

Aluminum toxicity
Aluminum uptake; Liposome (Akeson, M.A. (984) 200)

Aluminum adsorption; Stern model (Akeson, M.A. (986) 33)

Aluminum uptake
Aluminum toxicity; Liposome (Akeson, M.A. (984) 200)

Alveolar permeability
Surfactant apoprotein; Lung tissue; (Rabbit) (Snyder, J.M. (1002) 1)

Alveolar stability
Pulmonary surfactant; Tubular myelin; Alveolar surface tension; Lipoprotein; (Canine lung) (King, R.J. (1001) 294)

Alveolar surface tension
Pulmonary surfactant; Tubular myelin; Alveolar stability; Lipoprotein; (Canine lung) (King, R.J. (1001) 294)

Alveolar type II cell
6-Phosphofructokinase; Fructose 2,6-bisphosphate; Development; (Rat lung) (Heesbeen, E.C. (1002) 388)

Pulmonary surfactant synthesis; Phosphatidylcholine; Carbon tetrachloride; (Rat) (Ma, J.Y.C. (1003) 136)

α-Amanitin
Fructose-biphosphate aldolase; Gene expression; RNA polymerase III; (Rat) (Arai, Y. (1007) 91)

AMBER
Molecular modeling; Gramicidin A; Phosphatidylcholine (Meulendijks, G.H.W.M. (979) 321)

Amelogenin
Enamelin; Cementum; Immunoblotting; Amino acid composition; (Mouse cementum); (Human cementum) (Slavkin, H.C. (991) 12)

Amide–aromatic interaction
Sulfur–aromatic interaction; Protein side chain contact; Molecular orbital calculation; π Hydrogen bond (Cheney, B.V. (996) 116)

Amide proton exchange
FT-IR; Rhodopsin structure; Bacteriorhodopsin structure; Conformational change (Haris, P.I. (995) 160)

Amiloride
Sodium ion–proton exchanger; Choroid plexus; Cerebrospinal fluid; Sodium-22 uptake; Cell pH (Murphy, V.A. (979) 187)

Glucose-6-phosphatase; Microsome; Glucose 6-phosphate transport (Pears, J. (993) 224)

Nb_2 node lymphoma cell; Prolactin; Protein synthesis; RNA synthesis; DNA synthesis (Rillema, J.A. (1014) 78)

Amine effect
ATPase, Na^+/K^+-; Phosphorylation; Cytoplasmic side; Extracellular side (Van der Hijden, H.T.W.M. (987) 75)

Amine group, primary
Mercury chloride; Model membrane; Phospholipid–mercury interaction; Thermotropic effect; Phase transition (Delnomdedieu, M. (986) 191)

Amine oxidase gene
cDNA cloning; Nucleotide sequence; Topogenic signal; Yeast microbody; (*H. polymorpha*) (Bruinenberg, P.G. (1008) 157)

β-Amino acid
β-Alanine; γ-Amino acid; Michaelis-Menten absorption; Absorption kinetics; (Rat intestine) (Merino, M. (986) 1)

γ-Amino acid
β-Alanine; β-Amino acid; Michaelis-Menten absorption; Absorption kinetics; (Rat intestine) (Merino, M. (986) 1)

Amino acid assignments
NMR, two dimensional; Myoglobin; Phosphine trimethyl (Simonneaux, G. (999) 42)

Amino acid compartmentation
α-Aminoadipic acid; Lysine; Penicillin biosynthesis; (*P. chrysogenum*) (Hönlinger, C. (993) 204)

Amino acid composition
Enamelin; Amelogenin; Cementum; Immunoblotting; (Mouse cementum); (Human cementum) (Slavkin, H.C. (991) 12)

Amino acid replacement
Amyloid immunoglobulin; Immunoglobulin; Amino acid sequence (Ferri, G. (995) 103)

Amino acid sequence
Bacteriochlorophyll binding protein; Membrane protein; Energy transfer; Proteoliposome chromatophore fusion (Tadros, M.H. (976) 161)

Erythrocyte; Band 3 protein; Anion transport; Proteolytic fragment; (Mouse) (Raida, M. (980) 291)

Insulin; Marsupial; (Kangaroo) (Treacy, G.B. (990) 263)

Pancreatic stone protein; Pancreatic calculi; Amino terminal 5-oxoproline; *O*-Glycosyl bond cleavage; Carbohydrate content; (Human) (De Caro, A.M. (994) 281)

Amyloid immunoglobulin; Immunoglobulin; Amino acid replacement (Ferri, G. (995) 103)

Lung surfactant; SP-C; Nucleotide sequence; Type II cell; Species homology; Surfactant protein (Fisher, J.H. (995) 225)

Hemoglobin IV; (Trout) (Petruzzelli, R. (995) 255)

Insulin-like growth factor; HPLC; Isolation; (Sheep) (Hey, A.W. (997) 27)

Antifreeze peptide; Peptide structure; Ice growth inhibition; (*A. brachycephalus*) (Cheng, C.-H.C. (997) 55)

Band 3 protein; Primary structure; (Human); (Mouse) (Yannoukakos, D. (998) 43)

Globin; (Sea cucumber); (*P. chilensis*) (Suzuki, T. (998) 292)

Revision; Pancreatic spasmolytic polypeptide; pS2 (Rose, K. (998) 297)

Hemoglobin, dimeric; Globin; Phylogenetic relationship; (*C. soyoae*) (Suzuki, T. (999) 254)

Monkey erythrocyte membrane; Glycophorin MK; Blood group activities, MN (Murayama, J.-I. (999) 273)

Lactoferrin; Colostrum; Milk; ssDNA; Purification; (Porcine) (Hutchens, T.W. (999) 323)

Apolipoprotein A-IV; DNA sequence; HDL; Lecithin–cholesterol acyltransferase; Sequence heterogeneity (Yang, C.-y. (1002) 231)

Pulmonary surfactant; Surfactant associated protein; (Bovine lung) (Yu, S.-H. (1005) 93)

Growth hormone; cDNA sequence; Sequence homology; (Carp, *C. carpio*) (Chao, S.-C. (1007) 233)

Protein phosphatase; cDNA cloning; Peptide mapping; Nucleic acid sequence; (Rabbit liver) (Cohen, P.T.W. (1008) 125)

Leucine-rich glycoprotein; cDNA sequence; Sequence homology; (Mouse cDNA); (Human cDNA) (Setoguchi, M. (1008) 213)

Ribosomal protein S4; Protein primary structure; S4, protein; (Rat) (Devi, K.R.G. (1008) 258)

Growth hormone; Nucleotide sequence; Homology; (Salmon) (Sekine, S. (1009) 117)

Plasminogen activator; Recombinant tissue type plasminogen activator; Vascular plasminogen activator; Kinetics; Carbohydrate composition; (Human) (Hamaguchi, M. (1009) 143)

Protein phosphatase; Calmodulin; cDNA cloning; Nucleotide sequence; (Rabbit brain) (Da Cruz e Silva, E.F. (1009) 293)

Cytochrome *P*-450$_{BM-1}$; DNA sequence; *P*-450 cloning (He, J.-S. (1009) 301)

Protein phosphatase; Inhibitor protein; Glucagon; Immunoblotting; Hepatic metabolism; (Rabbit); (Rat) (MacDougall, L.K. (1010) 218)

Amino acid sequence homology
Nuclear envelope; Lamin A; Lamin C; cDNA cloning; Nucleotide sequence; (Mouse cDNA library) (Riedel, W. (1008) 119)

Amino acid sequence, partial
Chlorophyll-protein complex; CP29; Ion-exchange HPLC; Light harvesting; Photosystem II; (Spinach) (Henrysson, T. (977) 301)

Amino acid sequence, terminal
Synthetic peptide; Pardaxin; Model membrane; Phosphatidylcholine; Phosphatidylserine (Saberwal, G. (984) 360)

Amino acid transport
Proton/amino acid symport; Kinetics; Energy coupling; Permease; (*P. cyclopium*) (Roos, W. (978) 119)

L-Lysine; Yeast; (*S. pombe*) (Sychrová, H. (978) 203)

Basic amino acid transport; Lysine; Alanine; Sodium ion dependence; System y^+; (Guinea pig placenta) (Wheeler, C.P.D. (978) 257)

Glutamine; Basolateral membrane; (Rat intestine) (Ghishan, F.K. (979) 77)

Ethanol; General amino-acid permease; Cycloheximide; (*S. cerevisiae*) (Ferreras, J.M. (979) 375)

Sodium ion coupled transport; Pancreatic acinar cell; Whole-cell recording (Von Blankenfeld, G. (980) 385)

Macrophage; Leukemia cell; Differentiation; Lipopolysaccharide; (Mouse) (Sato, H. (983) 259)

ATP stimulation; Mesophyll cell; Vacuole; Tonoplast; (Barley); (*H. vulgare*) (Dietz, K.-J. (984) 57)

Cross-inhibition analysis; Brush-border membrane vesicle; (Guinea-pig intestine) (Satoh, O. (985) 120)

Blood-brain barrier; Taurine; Sodium ion dependence; Brain capillary; (Rat) (Tayarani, I. (985) 168)

System x_{AG}^-; Lysosomal transport; Anionic amino acid (Collarini, E.J. (987) 139)

Lysosomal transport; System L; System T (Stewart, B.H. (987) 145)

9-Aminoacridine
Chloroplast; ATPase, H^+-; Thiol modulation; Proton gradient; Enzyme regulation (Lohse, D. (976) 85)

α-Aminoadipic acid
Lysine; Penicillin biosynthesis; Amino acid compartmentation; (*P. chrysogenum*) (Hönlinger, C. (993) 204)

Amino alcohol
Peptaibol; Trichorzianin analog; Lipid bilayer; Voltage-dependent conductance; Single-channel behavior (Duclohier, H. (987) 133)

4-Aminoantipyrine
Glucose assay; Aminopyrine; Gluconeogenesis; (Hepatocyte); (Microsome) (Latos, P. (991) 152)

4-Aminobenzoate hydroxylase
Stereospecificity; NAD(P)H oxidation; (*A. bisporus*) (Tsuji, H. (991) 380)

γ-Aminobutyric acid
Choline uptake; *n*-Alcohol; Synaptosome; Synaptic plasma membrane; Membrane potential (Mrak, R.E. (984) 97)

β-Aminoglutaric acid
Methanogenic bacterium; NMR, ^{13}C-; NMR, ^{15}N-; (*M. thermolithotrophicus*) (Robertson, D.E. (992) 320)

***p*-Aminohippurate carrier**
Apical membrane; Alkaline phosphatase; Phase state; Lipid bilayer; Campbell mutation; (Rat) (Bresler, V.M. (982) 288)

2-Aminoisobutyric acid transport
Photodynamic effect; Hematoporphyrin derivative; Hyperthermia; Repair; L929 cells; Protein synthesis (Boegheim, J.P.J. (979) 215)

5-Aminolevulinate dehydratase
Chlorophyll biosynthesis; C_5 pathway; 4,5-Dioxovalerate; Protochlorophyllide; (*Scenedesmus*) (Kotzabasis, K. (977) 309)

5-Aminolevulinate synthase
mRNA; Drug induction; (Rat) (Srivastava, G. (1007) 192)

***p*-Aminophenyl α-D-mannopyranoside**
N-Glutarylphosphatidylethanolamine; Phospholipid derivative; Covalent coupling; (Multilamellar liposome) (Weissig, V. (1003) 54)

Aminophospholipid
ATP-dependent translocase; Friend erythroleukemic cell; Phospholipid asymmetry; Transbilayer mobility; (Murine erythrocyte) (Middelkoop, E. (978) 241)

Phospholipid asymmetry; ATP-dependent translocase; Diamide; (Human erythrocytes) (Middelkoop, E. (981) 151)

Aminopyrine
Glucose assay; 4-Aminoantipyrine; Gluconeogenesis; (Hepatocyte); (Microsome) (Latos, P. (991) 152)

Amino terminal amino acid sequence
α_1-Antichymotrypsin; Microheterogeneity; Isoelectric focusing; Serpin (Lindmark, B. (997) 90)

Amino terminal 5-oxoproline
Pancreatic stone protein; Pancreatic calculi; Amino acid sequence; *O*-Glycosyl bond cleavage; Carbohydrate content; (Human) (De Caro, A.M. (994) 281)

Amino terminal protein sequence
Interleukin; Lymphokine; Gene expression; Glycosylation; (Monkey kidney cells); (Murine interleukin gene) (Ramanathan, L. (1007) 283)

Amino terminal sequence
Bovine; Antigen, S-; Uveitogenic peptide (Tsunasawa, S. (994) 191)

Kallikrein; Cleavage preference; Radioimmunoassay; Affinity labeled tracer; (Rat plasma) (Paquin, J. (999) 103)

Aminothiol
L-Threonine dehydratase; Inhibition (Leoncini, R. (994) 52)

Aminotransferase assay
Branched chain aminotransferase; Transaminase assay (Airas, R.K. (992) 397)

Aminoxyl
ESR; Oxygen, intracellular; Selective localization; Nitroxide; Nitroxyl (Hu, H. (1014) 211)

Ammonolysis
N-Ethylbenzisoxazolium ion; *N*-Ethylsalicylamide ester; Papain (Kooistra, C. (997) 115)

Amniotic fluid
pH regulation; Water permeability; (Human amnion) (Porta, M. (980) 220)

AMP
ADP; ATP; Spin label (Ubom, G.A. (997) 1)

AMP activated protein kinase
Protein kinase; Substrate specificity; Glycogen synthase; Phosphorylase kinase; Phosphorylation site; Consensus sequence (Carling, D. (1012) 81)

cyclic AMP
Calcium ion, intracellular; Secretagogue; Calcium ion buffer; Fura-2; (Rabbit gastric mucosa) (Michelangeli, F. (983) 82)

Phosphodiesterase; Platelet membrane; (Human blood) (Kahn, N.N. (984) 113)

Glycoprotein; GP IIb-IIIa; Platelet activation; Inositol phosphate; Protein phosphorylation; Fibrinogen (Sinigaglia, F. (984) 225)

Electropermeabilization; Plasma membrane; β-Adrenergic receptor; C6 glioma cell; GTP (Volker, T.T. (984) 243)

Gap junction; Lens plasma membrane; Protein phosphorylation; (Sheep lens) (Voorter, C.E.M. (986) 8)

Mastocytoma; c-*fos*; c-*myc*; Gene expression; Differentiation; (Mouse cell) (Goulding, M.D. (1007) 99)

Protein kinase; Cilia; (*Paramecium*) (Mason, P.A. (1010) 108)

Protein kinase; Cilia; (*Paramecium*) (Mason, P.A. (1010) 116)

Mechanical stress; Inositol phosphate; (Mouse osteoblast) (Sandy, J.R. (1010) 265)

Intestinal transport; Ileum; Taurocholate; Bile acid absorption; (Rat) (Reymann, A. (1011) 158)

Lactogen; Human growth hormone; Nb_2 lymphoma; Protein phosphorylation (Kornberg, L.J. (1011) 205)

Potassium ion efflux; Calcium ion; Caffeine; Oscillation; (*Dictyostelium*) (Aeckerle, S. (1012) 196)

Calcium ion, cytosolic; Potassium ion channel; Acid secretion; (Rat cultured parietal cell) (Ueda, S. (1012) 254)

Macrophage; Protein kinase C; Cell spreading; Electron microscopy; (Mouse cell line) (Petty, H.R. (1012) 284)

Junctional conductance; Heart protein kinase; Isoproterenol (De Mello, W.C. (1012) 291)

Inositol 1,4,5-trisphosphate; 1,2-Diacylglycerol; Phorbol ester; Phosphate transport; (Opossum kidney cell) (Quamme, G. (1013) 159)

Phorbol ester; Inositol polyphosphate; Calcium ion activity, intracellular; Phosphate transport; (Opossum kidney cell) (Quamme, G. (1013) 166)

Inositol 1,4,5-trisphosphate; Calcium ion release; Saponin; Platelet; (Human) (Tohmatsu, T. (1013) 190)

Calcium ion; Cell growth; Mastocytoma cell; (Mouse) (Lints, T. (1013) 287)

cyclic AMP dependence
Protein kinase, cyclic AMP dependent; Distribution; Lens; (Bovine eye) (Hur, K.C. (1010) 56)

cyclic AMP dependent kinase
Phosphofructokinase; Isozyme; Phosphorylation (Valaitis, A.P. (995) 187)

cyclic AMP formation
Prostaglandin D_2; Bovine adrenal medulla; (Bovine fibroblast) (Sugama, K. (1011) 75)

cyclic AMP metabolism
ras gene product; β-Adrenergic receptor; Cell proliferation; Gene expression; (Mouse cell) (Davies, S.-A. (1013) 173)

cyclic AMP synthesis
Energy metabolism; Forskolin; Proteoglycan synthesis (Hu, L.-M. (1013) 294)

dibutyryl cyclic AMP
Alkaline phosphatase; Prednisolone; Enzyme induction; (Human fetal liver cell) (Sorimachi, K. (1010) 72)

intracellular cyclic AMP
Plasminogen activator; Endothelial secretion; Inhibitor; Signal transduction; (Human umbilical cord cell) (Francis, Jr, R.B. (1012) 207)

Amphipathic alpha-helical peptide
Fusogen; Membrane fusion; Liposome; Cationic peptide; Polymyxin B; Hydrophobic moment (Suenaga, M. (981) 143)

Amphipathic antimicrobial peptide
Alpha-helical peptide; Fluorescent peptide; Pyrenylalanine; Tryptophan fluorescence; Peptide–lipid interaction; Peptide–peptide interaction (Lee, S. (984) 174)

Amphiphile
Vesicle release; Detergent; Erythrocyte; Shape alteration (Hägerstrand, H. (982) 179)

Calmodulin; Phosphodiesterase; Surfactant (Isomaa, B. (998) 131)

Amphiphile transport
Multidrug resistance; Transbilayer diffusion; (CHO cell) (Boscoboinik, D. (1014) 53)

Amphiphilic compound
Crystal structure; Heptane-1,2,3-triol (Müller-Fahrnow, A. (978) 176)

Amphiphilic drug
Binding study; Lamellar body; (Rat lung) (Joshi, U.M. (1004) 309)

Amphiphilic peptide
ATPase, F_1-; Cationic dye; Inhibitory site (Bullough, D.A. (975) 377)

Amphiphilic structure
NMR, two dimensional; β-Strand; Model peptide; Dynorphin (Vaughn, Jr., J.B. (999) 135)

Amphiphilic substrate
Enzyme kinetics; Membrane-bound enzyme; Enzyme purification; Acyl-CoA; Acyl-CoA elongase (Bessoule, J.-J. (983) 35)

Amphotericin B
Polyene antibiotic; Bile salt; Deoxycholate; Polydispersity; Spin label (Lamy-Freund, M.T. (981) 207)

Membrane potential; Microelectrode technique; Ion conductance; (*R. catesbeiana* cornea) (Carrasquer, G. (982) 73)

Polyene antibiotic; Calcium ion permeability; Liposome; Large unilamellar vesicle; Cholesterol; Ergosterol; Arsenazo III (Ramos, H. (982) 303)

Liposomal amphotericin B; Phase transition; Freeze-etch; Electron microscopy; ESR (Grant, C.W.M. (984) 11)

Sucrose ester; Antifungal activity (Brajtburg, J. (985) 307)

AMP transport
Adenosine production; Mitochondrial ATP/ADP-translocator; Acetate metabolism; Metabolic compartmentalization; (Rat heart) (Kiviluoma, K.T. (974) 274)

Amsacrine
Topoisomerase II-DNA complex; Topoisomerase II-DNA complex formation enhancing factor; Nucleus; (Murine mastocytoma cell) (Darkin, S.J. (1007) 295)

Amylase
Pullulanase; (*B. circulans* F-2) (Sata, H. (991) 388)

α-Amylase
Glycosidic bond hydrolysis; NMR; Covalent enzyme intermediate; Enzyme mechanism; Cryological enzymology; (Porcine pancreas) (Tao, B.Y. (995) 214)

α-Amylase inhibitor
Cereal; Endochitinase; Protein, PR; Crop protection (Ary, M.B. (999) 260)

Amylin gene
Diabetes mellitus (Cooper, G.J.S. (1014) 247)

Amyloid
Amyloidosis; Glycosaminoglycan; Heparin; Dextran sulfate (Hamazaki, H. (998) 231)

Amyloid immunoglobulin
Immunoglobulin; Amino acid sequence; Amino acid replacement (Ferri, G. (995) 103)

Amyloidosis
Amyloid; Glycosaminoglycan; Heparin; Dextran sulfate (Hamazaki, H. (998) 231)

Anesthesia
Alkane–membrane interaction; 'Cut-off' effect; NMR, ^{2}H- (Pope, J.M. (980) 69)

Ethanol; Membrane; Fluorescence; Temperature (Hitzemann, R.J. (983) 205)

Anesthesia mechanism
Partition coefficient; Binding mode; Lipid/water interface; Surfactant micelle; Volatile anesthetic (Yoshida, T. (985) 331)

Anesthesia theory
Adsorption isotherm; Phospholipid vesicle membrane; Partition coefficient (Yoshida, T. (979) 287)

Vesicle membrane; Interface; Two-dimensional nuclear Overhauser effect; Nuclear Overhauser difference spectroscopy; Hydrophyl–hydrophobe balance (Yokono, S. (982) 300)

Surface capacitance; Phospholipid vesicle; Phase transition; Interface (Yoshida, T. (984) 253)

Anesthetic
Potassium conductance; (Squid giant axon) (Elliott, A.A. (978) 337)

Calcium ion activated potassium ion channel; Potassium ion channel; Volatile anesthetic; Glioma cell; Charybdotoxin; Calcium ionophore (Tas, P.W.L. (983) 264)

Angelicin
Furocoumarin; Psoralen; Glutathione; Photooxidation; Melanin pigmentation; Ultraviolet irradiation; Oxygen radical (D'Ischia, M. (993) 143)

Angiotensin converting enzyme
Ionophore A23187; Calcium ion dependence; Protein synthesis; (Bovine endothelial cell) (Dasarathy, Y. (1010) 16)

Angiotensin II
Fish oil; LDL; Inositol polyphosphate; Thromboxane A_2; Vascular smooth muscle cell (Locher, R. (1012) 279)

Heart muscle; Patch clamp; Sodium channel; Protein kinase C; Phosphorylation; (Guinea pig) (Nilius, B. (1014) 259)

Anion binding
NMR, $^{35}Cl^{-}$-; Hemoglobin; (Dromedary) (Lundberg, P. (999) 12)

Anionic amino acid
Amino acid transport; System x_{AG}^{-}; Lysosomal transport (Collarini, E.J. (987) 139)

Anionic polypeptide fraction
Cholesterol; Protein binding; (Rat liver) (Martigne, M. (979) 341)

Anion radical
Ionic strength dependence; Electric charge distribution; Reaction rate; Flash photolysis (Egawa, T. (995) 207)

Anion superoxide formation
NAD(P)H oxidoreductase; Oxygen free radical; (Radish plasmalemma) (Vianello, A. (980) 202)

Anion transport
Contraluminal membrane; Molecular charge distribution; Hydrophobicity; Sulfate (Fritzsch, G. (978) 249)

Erythrocyte; Dipyridamole; Band 3 protein (Legrum, B. (979) 193)

Erythrocyte; Band 3 protein; Proteolytic fragment; Amino acid sequence; (Mouse) (Raida, M. (980) 291)

Band 3 protein; Bisulfite; Bicarbonate; Sulfate; Colloid osmotic lysis; (Human erythrocyte) (Labotka, R.J. (981) 358)

Methotrexate; Methotrexate transport; Leukemia cell; Membrane protein; Crosslinking (Jansen, G. (985) 266)

Erythrocyte membrane; Dansyl chloride; Band 3 protein; Cotransport (Berghout, A. (986) 75)

Bilirubin; Albumin; Jaundice; Hepato-renal syndrome; Protein binding; (Rat) (Sugi, K. (987) 217)

Anion transport protein
Glucose transporter; Band 3 protein; Band 4.5; *p*-Azidobenzylphlorizin; ESR (Wyse, J.W. (979) 127)

Anisosmotic buffer
Potassium ion transport; (Chicken enterocyte) (Montero, M.C. (979) 269)

Anisotropy
Phosphorescence; Excited triplet state; Delayed fluorescence; Fluorescence (Vanderkooi, J.M. (976) 1)

Ankyrin
Band 3 protein; Cytoskeleton protein; Rotational mobility; (Human erythrocyte) (Clague, M.J. (981) 43)

Ankyrin binding site
Band 3 protein; Chronic myelogenous leukemia; Leukemia; (Human blood) (Kundu, M. (985) 97)

Annealing
Phase separation; Bilayer; Phospholipase A_2; Lipid–protein interaction; Interfacial catalysis; Interfacial activation (Jain, M.K. (980) 23)

Antenna complex
Light harvesting; Energy transfer; Transposon mutagenesis; Photosynthesis; (*Rb. sphaeroides*) (Hunter, C.N. (973) 383)

Energy transfer; Excitation annihilation; Low temperature; (*R. rubrum*) (Deinum, G. (976) 63)

Antenna, light-harvesting
Optical cross section; Poisson distribution; Trap; Reaction center; Single turnover flash; Quantum requirement; Energy transfer; Fluorescence induction; Pigment protein (Mauzerall, D. (974) 119)

Anthracycline
Adriamycin; Phospholipid; Liposome; Equilibrium binding; Fluorescence spectroscopy (Burke, T.G. (982) 123)

Triplet state; Flash photolysis; ESR; Singlet oxygen (Andreoni, A. (990) 190)

Kinetics; Nuclear concentration; Fluorescence; (Human lymphocyte) (Tarasiuk, J. (1013) 109)

Iminodaunomycin; Photoactivation; Cell photosensitization; Laser (Andreoni, A. (1014) 8)

Anthranilate synthase
Prephenate dehydratase; Regulation (Tianhui, X. (991) 6)

3′-*O*-Anthraniloyl-ATP
Valyl-tRNA synthetase; Valine-tRNA ligase; Enzyme-substrate binding; Fluorometric titration; Fast kinetics; Stopped flow method; (*B. stearothermophilus*) (Kakitani, M. (996) 76)

Anthraquinone
Chlorophyll fluorescence; Fluorescence quenching; Benzoquinone; Naphthoquinone; (Barley chloroplast) (Karukstis, K.K. (973) 124)

Antibiotic
Cephalexin; Brush-border membrane vesicle; Carrier mediated transport; (Human placenta) (Kudo, Y. (978) 313)

Synergimycin; Ribosome; Protein synthesis; Peptidyltransferase inhibitor (Nyssen, E. (1009) 39)

Antibiotic M139603
Ion transport; Phospholipid bilayer; Ionophore; NMR, ^{23}Na-; NMR, ^{39}K-; NMR, ^{7}Li- (Riddell, F.G. (984) 6)

Antibiotic–membrane interaction
Trichorzianine; Model membrane; (Amoeba *Dictyostelium*) (Hajji, M.E. (978) 97)

Antibody
Tubulin, T-; Nifedipine; Protein, 60 kDa; Calcium ion channel; (Heart cell beating) (Chatterjee, D. (984) 104)

Serum amyloid A; Antipeptide; (Human plasma) (Saïle, R. (992) 407)

Hydrogenase; Hydrogen bacteria; Aerobic hydrogen bacterium (Lorenz, B. (995) 1)

Liposome; Targeting; Ligand (Senior, J. (1003) 58)

Antibody binding site
ATPase, Na^+/K^+-; Enzyme conformation; Ion binding; Conformational transition (Friedman, M.L. (995) 42)

Antibody–hapten interaction
Phosphorylcholine; Intrinsic fluorescence; Fluorescence quenching; Derivative spectroscopy; Monoclonal antibody (Urbaneja, M.-A. (998) 85)

α_1-Antichymotrypsin
Microheterogeneity; Isoelectric focusing; Amino terminal amino acid sequence; Serpin (Lindmark, B. (997) 90)

Antiestrogen
Antiestrogen binding; Cholesterol; Cell proliferation; (Mouse lymphoid cell line) (Tang, B.L. (1014) 162)

Antiestrogen binding
Antiestrogen; Cholesterol; Cell proliferation; (Mouse lymphoid cell line) (Tang, B.L. (1014) 162)

Antifibrinolytic
Plasminogen; Kringle 4 structure; Photo-CIDNP experiment; Protein NMR; NMR, protein (De Marco, A. (994) 121)

Antifreeze peptide
Amino acid sequence; Peptide structure; Ice growth inhibition; (*A. brachycephalus*) (Cheng, C.-H.C. (997) 55)

Antifungal
Lipid; Lipopeptide; Iturin; Mixed monolayer (Maget-Dana, R. (981) 309)

Antifungal activity
Amphotericin B; Sucrose ester (Brajtburg, J. (985) 307)

Antifungal antibiotic
Polyene macrolide; Large unilamellar vesicle; NMR, ^{31}P- (Hervé, M. (980) 261)

Antigenic specificity
Colipase; Monoclonal antibody; Immunoinactivation; Pancreas (La Fournière, L. (998) 158)

Antigen, S-
Bovine; Amino terminal sequence; Uveitogenic peptide (Tsunasawa, S. (994) 191)

Antigen stimulation
Leukemia cell; Streptolysin O; Inositol phosphate; Inositol phospholipid turnover; GTPγS; (Permeabilized RBL-2H3 cell) (Ali, H. (1010) 88)

Antimalarial drug
Protonophore; Chloroquine; Alkylamine; (*E. coli*) (Nissani, E. (978) 293)

Antimitotic drug
β-Tubulin; 2,4-Dichlorobenzyl thiocyanate; Sulfhydryl group; Alkylation (Bai, R.-l. (994) 12)

Antineoplastic phospholipid
Alkylmethylglycerophosphocholine; PAF analog; Plasma membrane (Vallari, D.S. (1006) 250)

Antioxidant
Lipid peroxidation; α-Tocopherol; Dihydrolipoate; Microsome; (Rat) (Scholich, H. (1001) 256)

Lipid peroxidation; Vitamin E; Biliverdin; Bilirubin; Synergism (Stocker, R. (1002) 238)

DNA oxidation; Guanyl radical; DNA repair; Free radical (Jovanovic, S.V. (1008) 39)

Antioxidant activity
Vitamin C derivative; Vitamin E radical; Reaction rate (Mukai, K. (993) 168)

Antioxidant enzyme
Hydrogen peroxide resistance; Drug resistance; Catalase mRNA; mRNA stability; (MCF7) (Akman, S.A. (1009) 70)

Antipeptide
Serum amyloid A; Antibody; (Human plasma) (Saïle, R. (992) 407)

α_2-Antiplasmin
Serpin; Plasminogen; Proteinase inhibitor; *cis*-Dichlorodiammineplatinum(II) (Geary, W.A. (994) 1)

Antiprogestin ZK 98.299
Progesterone receptor; Endometrium; Myometrium; Relative binding affinity; Binding characteristic; (Human) (Puri, C.P. (1011) 176)

Antisticking factor
Sperm adhesion; (Goat epididymal plasma) (Roy, N. (991) 114)

Antithrombin III
Plasmin; Thrombin; Protein degradation; (Mouse hepatocyte) (Spolarics, Z. (1012) 231)

α_1-Antitrypsin Pittsburgh
Proalbumin processing; Liver microsome; Proalbumin Christchurch; KEX2 proteinase; (Yeast); (Chicken) (Peach, R.J. (990) 276)

Antitumor agent
Targeting chemotherapy; Adriamycin; Liposome stability; Cholesterol; Dipalmitoylphosphatidylcholine (Tomita, T. (978) 185)

Antitumor drug
Free radical formation; Mitomycin C; Cardiac microsome; (Perfused rat heart) (Politi, P.M. (992) 341)

Antiviral chemotherapy
Interferon; Poly(rI)·poly(rC); Liposome; Monoclonal antibody; Drug targeting (Milhaud, P.G. (987) 15)

Antizyme
Antizyme inhibitor; Ornithine decarboxylase; (Rat liver) (Kitani, T. (991) 44)

Antizyme inhibitor
Antizyme; Ornithine decarboxylase; (Rat liver) (Kitani, T. (991) 44)

AP endonuclease
Microsomal receptor; Enzyme-receptor complex; Membrane protein; Karyophilic protein; (Rat liver microsome) (Verly, W.G. (1008) 183)

Apical membrane
Potassium ion channel; Proximal tubule; Patch clamp; (Rabbit) (Merot, J. (978) 134)

p-Aminohippurate carrier; Alkaline phosphatase; Phase state; Lipid bilayer; Campbell mutation; (Rat) (Bresler, V.M. (982) 288)

Apocytochrome *c*
Cytochrome *c*; Lysozyme; Polylysine; Peripheral protein; Spin label; ESR (Sankaram, M.B. (986) 315)

Apoenzyme
Carbonic anhydrase; Refolding; Renaturation; Denaturation; Cobalt (Bergenhem, N. (998) 277)

Apolipoprotein
Lipid synthesis; Leucine; Lipoprotein synthesis; (Zucker rat); (Hepatocyte culture) (Wang, S.R. (1002) 302)

Lipoprotein lipase; Hepatic lipase; Heparin; HDL structure; Cross-linking (Swaney, J.B. (1002) 338)

Lipoprotein; Surface property (Ibdah, J.A. (1004) 300)

Polyclonal antibody; Epitope characterization; (Oilseed); (*Cruciferae*) (Au, D.M.Y. (1005) 97)

Surfactan; Phosphatidylcholine turnover; (Rabbit) (Baritussio, A. (1006) 19)

HDL; Lipoprotein assembly; Secretion; Transfection; (Chicken) (Dixon, J.L. (1009) 47)

Apolipoprotein a
Lipoprotein(a); Apolipoprotein B; Primary hepatocyte; (Baboon) (Rainwater, D.L. (1003) 30)

Apolipoprotein A-I
Lipid transfer protein; Cholesteryl ester transfer protein; HDL; Apolipoprotein E; Apolipoprotein A-IV; (Rat) (Groener, J.E.M. (1002) 93)

HDL; Apolipoprotein A-II; Immunoaffinity chromatography; Monoclonal antibody; (Human) (James, R.W. (1002) 292)

Monoclonal antibody; Cyanogen bromide fragment; (Human) (Fidge, N. (1003) 84)

Apolipoprotein A-II; Size distribution; (Human peripheral lymph) (Reichl, D. (1006) 246)

Apolipoprotein A-II
Spectroscopy; Tyrosine residue; (Human plasma) (Massey, J.B. (999) 111)

Structure–function relationship; Tryptic hydrolysis; (Human plasma) (Massey, J.B. (999) 121)

HDL; Apolipoprotein A-I; Immunoaffinity chromatography; Monoclonal antibody; (Human) (James, R.W. (1002) 292)

Apolipoprotein A-I; Size distribution; (Human peripheral lymph) (Reichl, D. (1006) 246)

Apolipoprotein A-IV
Lipid transfer protein; Cholesteryl ester transfer protein; HDL; Apolipoprotein A-I; Apolipoprotein E; (Rat) (Groener, J.E.M. (1002) 93)

Amino acid sequence; DNA sequence; HDL; Lecithin–cholesterol acyltransferase; Sequence heterogeneity (Yang, C.-y. (1002) 231)

Lipoprotein metabolism; Plasma; Lymph; (Rat) (Ghiselli, G. (1006) 26)

Apolipoprotein B
Cholesterol; Apolipoprotein secretion; LDL receptor; (Human liver); (Hepatoma cell line) (Fuki, I.V. (1001) 235)

Lipoprotein(a); Apolipoprotein a; Primary hepatocyte; (Baboon) (Rainwater, D.L. (1003) 30)

Apolipoprotein B-100
LDL; Protein structure; Infrared; (Human) (Goormaghtigh, E. (1006) 147)

Apolipoprotein B deficiency
Hypobetalipoproteinemia; Transcriptional regulation; DNA sequence analysis; (Human) (Ross, R.S. (1004) 29)

Apolipoprotein B gene
Restriction fragment length polymorphism; Genetic polymorphism; (Human fibroblast) (Series, J. (1003) 183)

Apolipoprotein B turnover
Casein; Hypercholesterolemia; Kinetics; (Rabbit) (Khosla, P. (1002) 157)

Apolipoprotein E
Lipid transfer protein; Cholesteryl ester transfer protein; HDL; Apolipoprotein A-I; Apolipoprotein A-IV; (Rat) (Groener, J.E.M. (1002) 93)

Apolipoprotein E-1$_{Harrisburg}$
Hyperlipoproteinemia, type III; Apolipoprotein E variant; (Human) (Mann, W.A. (1005) 239)

Discoidal complex; Lecithin–cholesterol acyltransferase; Lipoprotein conversion (Gong, E.L. (1006) 317)

Apolipoprotein E receptor
LDL; Lipoprotein receptor; Promoter; LRP promoter (Kütt, H. (1009) 229)

Apolipoprotein E variant
Apolipoprotein E-1$_{Harrisburg}$; Hyperlipoproteinemia, type III; (Human) (Mann, W.A. (1005) 239)

Apolipoprotein secretion
Cholesterol; Apolipoprotein B; LDL receptor; (Human liver); (Hepatoma cell line) (Fuki, I.V. (1001) 235)

Apolipoprotein synthesis
Flotation property; Lipoprotein assembly; Hepatocyte; (Rat) (Hussain, M.M. (1001) 90)

Apolipoprotein topography
Lipid hydrolysis; VLDL; (Human plasma) (Dergunov, A.D. (1005) 79)

Apometalloproteinase
Metalloproteinase; V-8 serine proteinase; Calcium ion; (*S. aureus*) (Potempa, J. (993) 301)

Apoprotein
Glucagon; Lipoprotein; Plasma cholesterol; Cholesterol; (Rat) (Guettet, C. (1005) 233)

Apotransferrin
Ferritin; Iron chelator; Chloroquine; (Rat hepatocyte) (Sibille, J.-C. (1010) 204)

Aprotinin derivative
Peptide bond; Reactive site; Chemical modification (Mehlich, A. (996) 23)

Aqueous two-phase system
Partitioning; Poly(ethylene glycol); Free volume (Eiteman, M.A. (992) 125)

Arachidonic acid
Fatty acid; Calcium ion transport; Phospholipase A_2; (Rat liver mitochondria) (Rustenbeck, I. (982) 147)

Platelet desensitization; U46619 binding; Lipid phase fluidity; Platelet membrane; (Human) (Sato, T. (992) 168)

Aristolochic acid; Phospholipase A_2; PAF; (Human neutrophil) (Rosenthal, M.D. (1001) 1)

Macrophage; 12-Hydroxyicosatetraenoic acid; (Foam cell) (Mathur, S.N. (1001) 50)

Linoleic acid metabolism; *trans*-Fatty acid; α-Linolenic acid; Desaturation; Dietary fat; Polyunsaturated fatty acid; (Rat) (Zevenbergen, J.L. (1002) 312)

Phospholipase A_2; Phospholipase C; Subcellular distribution; (Human lung); (Rat lung) (Yeats, D.A. (1003) 189)

Prostacyclin; Ionophore A23187; (Rat alveolar epithelial cell); (Rat fibroblast) (Olson, D.M. (1003) 327)

Neutrophil; Phospholipid; Glycerophospholipid; $(n-3)$Fatty acid; Transacylation; (Human neutrophil) (MacDonald, J.I.S. (1004) 151)

Lipoxygenase product; (Phagocyte) (Serhan, C.N. (1004) 158)

Lipase; Colipase; Carboxyl ester lipase; Linoleic acid (Chen, Q. (1004) 372)

PAF; Acetyltransferase; (Bovine neutrophil) (Remy, E. (1005) 87)

Prostaglandin B_1 oligomer; Phospholipase A_2; (Human neutrophil); (Human endothelial cell) (Rosenthal, M.D. (1006) 278)

Phospholipase C; Phospholipase A_2; 1-Oleoyl-2-acetyl-*sn*-glycerol; Ketogenesis; Oleate metabolism; (Rat hepatocyte) (Chihara, M. (1012) 5)

Calcium ion release; Inositol trisphosphate; Fura-2; Platelet membrane; (Human) (Tohmatsu, T. (1012) 97)

Arachidonic acid metabolism
Thapsigargin; Histamine release; Prostaglandin D_2; (Rat peritoneal mast cell) (Ohuchi, K. (1003) 9)

Phospholipid metabolism; (Mucous cell); (Parietal cell); (Guinea pig) (Locher, M. (1003) 196)

Shear stress; Prostaglandin; (Human endothelial cell) (Nollert, M.U. (1005) 72)

Lipoxygenase; 5-Hydroxyicosatetraenoic acid; Mollusc; Pelecypoda; (*L. subrostrata*) (Hagar, A.F. (1005) 162)

Calcium ion, extracellular; Calcium ion, intracellular; Protein kinase C; Dioctanoylglycerol; (Human platelet) (Ozaki, Y. (1012) 87)

Arachidonic acid release
Ionophore A23187; Basophilic leukemia cell (Froissart, P. (1002) 376)

Vitamin E; α-Tocopherol; 5-Lipoxygenase; Polymorphonuclear leukocyte; Phospholipase A_2; (Rat) (Chan, A.C. (1005) 265)

Arachidonic acid turnover
Endotoxin; Ionophore A23817; Phospholipid pool (Rogers, T.S. (1001) 169)

Archaebacterium
Phospholipid; Cyclized phosphate; Complex lipid; Haloalkaliphile; (*N. occultus*) (Lanzotti, V. (1001) 31)

Phospholipid; Phosphatidic acid; Halophile (Lanzotti, V. (1002) 398)

Liposome; NMR, ^{1}H-; Fast atom bombardment mass spectrometry; Membrane morphology (Yamauchi, K. (1003) 151)

Arginine
Enzyme characterization; Cyanobacterium; Photosystem II; (*Synechococcus* sp.) (Meyer, R. (975) 80)

L-Arginine
Pancreatic islet; L-Ornithine; Polyamine; (Rat) (Malaisse, W.J. (1013) 133)

Pancreatic islet; L-Ornithine; Polyamine; (Rat) (Blachier, F. (1013) 144)

Arginine residue
Chemical modification; Glyceraldehyde-3-phosphate dehydrogenase (Asryants, R.A. (997) 159)

Arginine specific reagent
Hexaprenyl-diphosphate synthase; Prenyltransferase; Sulfhydryl reagent; Enzyme inactivation; Enzyme protection; (*M. luteus* B-P 26) (Yoshida, I. (995) 138)

Aristolochic acid
Phospholipase A_2; Arachidonic acid; PAF; (Human neutrophil) (Rosenthal, M.D. (1001) 1)

Arnon equation
Chlorophyll determination; Chlorophyll a/b ratio; Correction factor; Magnesium atomic absorption spectroscopy (Porra, R.J. (975) 384)

Aromatic amino acid
Time resolved fluorescence spectroscopy; Aromatic-L-amino-acid decarboxylase (Rosato, N. (996) 195)

Aromatic hydrocarbon receptor
Choline kinase; Phosphatidylcholine synthesis (Paulson, B.K. (1004) 274)

Aromatic hydroxylamine
Aryl sulfotransferase; Sulfation; Oxime (Mangold, J.B. (991) 453)

Aromatic-L-amino-acid carboxy-lyase
Tyrosine decarboxylase; L-Tyrosine carboxy-lyase; Aromatic-L-amino-acid decarboxylase; Fast polymer liquid chromatography; (*S. faecalis*); (Pig kidney) (Børresen, T. (993) 108)

Aromatic-L-amino-acid decarboxylase
Tyrosine decarboxylase; L-Tyrosine carboxy-lyase; Aromatic-L-amino-acid carboxy-lyase; Fast polymer liquid chromatography; (*S. faecalis*); (Pig kidney) (Børresen, T. (993) 108)

Time resolved fluorescence spectroscopy; Aromatic amino acid (Rosato, N. (996) 195)

Aromatic region
Adrenodoxin; NMR, ^{1}H- (Greenfield, N.J. (995) 246)

Aromatic substrate
Lactoperoxidase; Substrate binding; NMR; Optical difference spectroscopy (Modi, S. (996) 214)

Arrhenius relationship
Fatty acid uptake; Fatty acid metabolism; Long chain fatty acids; (Ascite tumor cell) (Haeffner, E.W. (1005) 27)

Arsenazo III
Calcium ion transport; Liposome; Mitochondrial lipid; Cardiolipin; Phosphatidylethanolamine (Kester, M.B. (980) 127)

Polyene antibiotic; Amphotericin B; Calcium ion permeability; Liposome; Large unilamellar vesicle; Cholesterol; Ergosterol (Ramos, H. (982) 303)

Arterial wall
LDL binding; Chondroitin sulfate proteoglycan; (Bovine) (Srinivasan, S.R. (1006) 159)

Articular cartilage
Proteoglycan synthesis; Proteinase inhibitor; Hyaluronate; (Bovine) (Bolis, S. (993) 157)

Artificial membrane
Transport protein; Carrier protein; Enzyme characterization; Reconstitution; (Mitochondria) (Krämer, R. (974) 1)

Arylsulfatase A
Pyrenecerebroside sulfate; Fluorescent sulfatide; (Human leukocyte) (Marchesini, S. (1002) 14)

Arylsulfatase C
Steroid sulfatase; Monoclonal antibody; (Rat); (Human) (Kawano, J.-i. (997) 199)

Aryl sulfotransferase
Sulfation; Oxime; Aromatic hydroxylamine (Mangold, J.B. (991) 453)

Ascorbate
Nitroxide metabolism; Oxygen; ESR; (Rat hepatocyte) (Iannone, A. (991) 90)

Histamine; *N*-Acetylhistamine (Uchida, K. (991) 377)

Melittin; Fluorescence quenching; Protein conformation (Meucci, E. (999) 58)

Copper; Iron; Oxidative damage; Hemolytic anemia; Thalassemia; (Human red blood cell) (Shinar, E. (1014) 66)

Ascorbate oxidase
Dipalmitoylphosphatidylcholine; Liposome; Protein–lipid interaction; Electron microscopy (Mossa, G. (986) 310)

Ascorbic acid
Tocopheroxyl radical; Reaction rate; Stopped flow (Mukai, K. (991) 276)

Asialoglycoprotein
Hybrid toxin; Diphtheria toxin; Toxin translocation; Receptor (Chang, T.-M. (1013) 239)

Receptor structure; Diacytosis; (Rabbit hepatocyte); (Rat hepatocyte) (Chang, T.-M. (1014) 229)

Asialoorosomucoid
Protein transport; Cyanogen bromide treatment; (Rat hepatocyte) (Chang, T.-m. (1010) 166)

L-Asparaginase
Histidine; Tyrosine; Chemical modification; NMR, ^{1}H-; (*E. coli*) (Bagert, U. (999) 36)

D-Aspartate
D-Aspartate oxidase; (Mouse) (Yamada, R.-h. (990) 325)

D-Aspartate oxidase
D-Aspartate; (Mouse) (Yamada, R.-h. (990) 325)

Aspartate transcarbamylase
Equilibrium isotope exchange kinetics; Site-specific mutation (Hsuanyu, Y. (995) 54)

D-Aspartic acid
Protein purification; (Bovine lens) (Fujii, N. (999) 239)

Aspartic proteinase
Cathepsin E; Cathepsin D; Cellular localization (Sakai, H. (991) 367)

Milk-clotting enzyme; Substrate specificity; κ-Casein; Glycomacropeptide (Drøhse, H.B. (995) 221)

Assembly
Myosin; LMM; Mg·ATP (Chowrashi, P.K. (997) 182)

Asymmetrical breakdown
Mesophyll protoplast; Electropermeabilization; Electrofusion; Protoplast (Mehrle, W. (978) 267)

Atebrin
Calcium activated potassium ion channel; Potassium ion channel; Menadione; Oxidoreductase; Lead; (Human erythrocyte) (Fehlau, R. (978) 37)

Atherosclerosis
Lipoprotein catabolism; Ileal bypass; LDL receptor; Cholesterol; (WHHL rabbit) (Mol, M.J.T.M. (1003) 167)

HDL receptor; Monocyte-derived macrophage; Retroendocytosis; Reverse cholesterol transport; (Human macrophage) (Alam, R. (1004) 292)

Acetylated low density lipoprotein receptor; LDL; Lipoprotein acetylation; Macrophage stimulation; Scavenger receptor (Leake, D.S. (1005) 196)

ATP
ADP; Adenine nucleotide content; Osmoregulation; Glycerol; (Alga); (*Dunaliella*) (Marengo, T. (976) 102)

Erythrocyte shape; Membrane; Zwitterion; Ionic strength; (Human) (Raval, P.J. (983) 230)

Polyphosphate utilization; 2-Deoxy-D-glucose transport; Sugar phosphorylation; (*K. marxianus*) (Schuddemat, J. (986) 290)

Electrogenic proton pump; Membrane potential; Proton efflux; (*P. polycephalum*) (Kuroda, H. (987) 154)

AMP; ADP; Spin label (Ubom, G.A. (997) 1)

ATP analog; ATPase; Dynein (Omoto, C.K. (999) 221)

Calcium ion, cytoplasmic; Fura-2; Phorbol myristate acetate; (Human neutrophil) (Kuroki, M. (1012) 103)

Polymorphonuclear leukocyte; Sodium fluoride; Exocytosis, calcium ion dependent; (Rabbit) (Elferink, J.G.R. (1013) 247)

ATP activated proteolysis
High molecular weight cysteine proteinase; Multicatalytic proteinase; Proteinase-α_1-macroglobulin complex; Reticulocyte; (Rabbit) (Kuehn, L. (991) 263)

mitochondrial ATP/ADP-translocator
Adenosine production; AMP transport; Acetate metabolism; Metabolic compartmentalization; (Rat heart) (Kiviluoma, K.T. (974) 274)

ATP citrate lyase
Lung surfactant; mRNA; Fatty-acid synthase; Acetyl-CoA; Malic enzyme; (Rat lung) (Batenburg, J.J. (1006) 329)

ATP content
Myosin light chain phosphorylation; Muscle contraction; (Pig) (Barron, J.T. (1010) 278)

ATP-dependent translocase
Aminophospholipid; Friend erythroleukemic cell; Phospholipid asymmetry; Transbilayer mobility; (Murine erythrocyte) (Middelkoop, E. (978) 241)

Phospholipid asymmetry; Aminophospholipid; Diamide; (Human erythrocytes) (Middelkoop, E. (981) 151)

ATP depletion
Enzyme release; Energy charge; Cell damage; Metabolic inhibitor; (Human embryonal lung fibroblast) (Kristensen, S.R. (1012) 272)

ATP, external
Sulfonamide derivative; Calmodulin antagonist; Membrane permeability; (CHO cell) (Kitagawa, T. (987) 235)

ATP, extracellular
Receptor operated channels; Calcium ion, cytoplasmic; (Rat pancreatic β-cell line (HIT)) (Geschwind, J.-F. (1012) 107)

Sodium ion–proton exchanger; Calcium ion; Protein kinase C; (Bovine aortic endothelial cell) (Kitazono, T. (1013) 152)

ATP-γ-S
Fluorescence; Thylakoid; Chloroplast; Phosphorylation; Photosystem II; (Spinach leaf) (Islam, K. (974) 267)

ATP hydrolysis
ATP synthesis; Coupling factor; Proteoliposome; Membrane reconstitution; ATPase, F_0F_1-; (*R. rubrum*) (Slooten, L. (975) 148)

Electrochromic absorbance change; Spectroscopy; Membrane potential; (*Chlorella*) (Joliot, P. (975) 355)

ATPase, Na^+/K^+-; Sodium pump; Kinetics; Cation effect (Rossi, R.C. (981) 95)

ATP phosphohydrolase
ATPase, Na^+/K^+-; Ouabain binding; Divalent cation; Rubidium-86 uptake; (Guinea-pig heart) (Hagane, K. (982) 279)

ATP productivity
Hydrogen evolution; pH dependence; NAD; Membrane bound hydrogenase; (*E. aerogenes*) (Tanisho, S. (973) 1)

ATP regulatory site
Calcium ion transport; Back inhibition; Sarcoplasmic reticulum; (Rabbit) (De Meis, L. (984) 373)

ATP secretion
Calcium ion transport; Indo-1; Platelet aggregation; (Human blood) (Magócsi, M. (984) 88)

ATP sensitive potassium ion channel
Cardiac muscle; Tolbutamide; Glibenclamide; Diazoxide; Action potential; Potassium ion channel; (Rat) (Faivre, J.-F. (984) 1)

ATP stimulation
Membrane vesicle; Transport; *S*-(2,4-Dinitrophenyl)glutathione uptake; (Rat liver) (Kunst, M. (983) 123)

Amino acid transport; Mesophyll cell; Vacuole; Tonoplast; (Barley); (*H. vulgare*) (Dietz, K.-J. (984) 57)

ATP synthase
Enzyme reconstitution; Photophosphorylation; Electron transport; Reaction center; Cytochrome bc_1 complex; (*R. capsulatus*) (Gabellini, N. (974) 202)

ATP synthase structure
Electron microscopy; Symmetry; ATPase, F_1-; Quaternary structure (Tiedge, H. (977) 1)

ATP synthesis
Hydrogen ion ATPase mutant; Sodium ion; (*V. parahaemolyticus*) (Sakai, Y. (973) 450)

Nitrogen fixation; Hydrogen oxidation; Electron transport; Leghemoglobin (O'Brian, M.R. (974) 229)

ATP hydrolysis; Coupling factor; Proteoliposome; Membrane reconstitution; ATPase, F_0F_1-; (*R. rubrum*) (Slooten, L. (975) 148)

CF_0/CF_1; Lipid packing; Membrane fluidity; Monogalactosyldiacylglycerol; Transmembrane distribution (Rawyler, A. (975) 283)

Coupling factor; Membrane reconstitution; Proton gradient; Luciferase; (*R. rubrum*) (Slooten, L. (976) 150)

Chloroplast coupling factor 1; δ-Subunit deficient chloroplast coupling factor; Thylakoid; Chloroplast coupling factor binding (Xiao, J. (976) 203)

ATP analog
ATPase, Na^+/K^+-; Sodium pump; Kinetics (Rossi, R.C. (981) 85)

ATP; ATPase; Dynein (Omoto, C.K. (999) 221)

ATPase
Photophosphorylation; Thylakoid membrane; Proton gradient; Enzyme regulation; (Lettuce chloroplasts) (Bizouarn, T. (974) 104)

Chloroplast; Thiol activation; Electrochromism; Leaf (Kramer, D.M. (976) 28)

Alkalophile; Membrane bound enzyme (Koyama, N. (980) 255)

Sarcoplasmic reticulum; Phospholamban; Rotational diffusion; Phosphorescence polarization; Protein phosphorylation (Fowler, C. (980) 348)

Plasma membrane; Yeast; Detergent activation; Vesicle sidedness (Monk, B.C. (981) 226)

Phosphate assay; HPLC; Microsome; Membrane bound enzyme; Purine; Pyrimidine (Missiaen, L. (990) 40)

ATP; ATP analog; Dynein (Omoto, C.K. (999) 221)

ATPase activation
CF_1; Sulfite; Thylakoid; (Kinetics) (Larson, E.M. (973) 67)

ATPase activity
Dynein; Isozyme; GTPase activity; (Sea urchin egg) (Rose, P.M. (990) 31)

ATPase antibody
ATPase, H^+/K^+-; Ontogeny; Gastric mucosa; Parietal cell; (Rat) (Hervatin, F. (985) 320)

ATPase, Ca^{2+}-
Calcium dependent proteinase; Erythrocyte membrane; (Human) (Au, K.S. (978) 197)

Fourier transform infrared spectroscopy; Sarcoplasmic reticulum; Secondary structure; (Rabbit) (Villalain, J. (978) 305)

Sarcoplasmic reticulum; Fourier transform infrared spectroscopy (Buchet, R. (983) 167)

Lipid peroxidation; Oxidative damage; Brush-border membrane; (Porcine small intestine) (Ohta, A. (984) 151)

Enzyme stability; Detergent; Poly(ethylene glycol); (Sarcoplasmic reticulum) (Welte, W. (984) 193)

Calcium ion effect; ATPase dimer; Sarcoplasmic reticulum (Keresztes, T. (984) 326)

Erythrocyte plasma membrane; Calcium pump; Conformational state; Circular dichroism; Fluorescence energy transfer; Fluorescence quenching; (Porcine blood) (Wrzosek, A. (986) 263)

Calcium ion pump; Calmodulin; Compound 48/80; EGTA; Erythrocyte; (Human) (Rossi, J.P.F.C. (996) 153)

ATPase, ($Ca^{2+} + Mg^{2+}$)-
N-Cyclohexyl-*N'*-(4-dimethylamino-1-naphthyl)carbodiimide; Spin label; Fluorescein isothiocyanate; Calcium binding site; (Rabbit skeletal muscle) (Munkonge, F. (979) 113)

Zinc ion; Sarcoplasmic reticulum; Fluorescein (Henao, F. (984) 135)

ATPase dimer
Calcium ion effect; ATPase, Ca^{2+}-; Sarcoplasmic reticulum (Keresztes, T. (984) 326)

ATPase, F_1-
Beta subunit; Chemical modification; 2-Azido-ATP; Single site catalysis; (*E. coli*) (Bragg, P.D. (974) 24)

Cooperativity; Azide inhibition; Unisite catalysis; Inhibitor protein, IF_1 (Harris, D.A. (974) 156)

ADP binding, high affinity; Inhibitory site; Nucleotide binding; (Bovine heart mitochondria) (Milgrom, Y.M. (975) 50)

Yeast mutant; Beta subunit; Enzyme kinetics; Nucleotide; Negative cooperativity; (*S. pombe*) (Falson, P. (975) 119)

Amphiphilic peptide; Cationic dye; Inhibitory site (Bullough, D.A. (975) 377)

Temperature dependence; Enzyme conformation; Nucleotide binding site; Fluorescence; Enzyme kinetics (Baracca, A. (976) 77)

ATP synthase structure; Electron microscopy; Symmetry; Quaternary structure (Tiedge, H. (977) 1)

ATPase, F_0F_1-
ATP hydrolysis; ATP synthesis; Coupling factor; Proteoliposome; Membrane reconstitution; (*R. rubrum*) (Slooten, L. (975) 148)

ATPase, F_1F_0-
c-Subunit; Site directed mutagenesis; Mutagenesis; (*E. coli*) (Fimmel, A.L. (978) 299)

c-Subunit; Site-directed mutagenesis; (*E. coli*) (Fimmel, A.L. (986) 257)

ATPase, H^+-
Chloroplast; Enzyme regulation; Azide inhibition; Enzyme kinetics (Minkov, I.B. (973) 7)

Chloroplast ATPase, H^+-; Photophosphorylation; Pyridoxalphosphate inhibition; CF_1; Subunit labeling; ([^{3}H]PLP) (Bickel-Sandkötter, S. (974) 30)

mitochondrial mutant; Membrane subunit; (Yeast mitochondria) (Marzuki, S. (975) 222)

Lipid–protein interaction; Protein conformation; Magnesium ion; Lipid fluidity (Zhang, X.F. (976) 53)

Chloroplast; Thiol modulation; Proton gradient; Enzyme regulation; 9-Aminoacridine (Lohse, D. (976) 85)

Chloroplast; Enzyme activation; Photophosphorylation; Nucleotide binding (Lohse, D. (976) 94)

Lysosome; Subunit structure; Vacuolar ATPase (Moriyama, Y. (980) 241)

Vacuole; Proton pump; Prelysosome; Endocytosis; (*D. discoideum*) (Padh, H. (982) 271)

Transport ATPase; Plasma membrane; Essential histidine; Histidine residue; Membrane transport (Morjana, N.A. (985) 19)

Syringomycin; Potassium ion efflux; Plasma membrane; (*S. cerevisiae*); (*R. pilimanae*) (Zhang, L. (987) 171)

ATPase, H^+/K^+-
Ontogeny; Gastric mucosa; Parietal cell; ATPase antibody; (Rat) (Hervatin, F. (985) 320)

Monoclonal antibody; Chloride conductance (Benkouka, F. (987) 205)

ATPase inhibitor
ATPase, Na^+/K^+-; Fatty acid; Hydrocarbon; (Bovine plasma) (Tal, D.M. (985) 55)

ATPase, Mg^{2+}-
Vanadate inhibition; Electrostatic interaction; Ionic effect; (Corn root plasmalemma) (Gibrat, R. (979) 46)

Compound 48/80; Calmodulin; Calcium pump; Sodium/potassium pump (Di Julio, D. (981) 337)

ATPase mutant
ATP synthesis; Sodium ion; Hydrogen ion; (*V. parahaemolyticus*) (Sakai, Y. (973) 450)

ATPase, Na^+/K^+-
Ouabain; Respiration; Thyroid hormone; (Hepatocyte) (Nobes, C.D. (976) 241)

Spin label; Rotational diffusion; Membrane protein; Saturation transfer ESR (Esmann, M. (978) 209)

ATP analog; Sodium pump; Kinetics (Rossi, R.C. (981) 85)

Sodium pump; Kinetics; ATP hydrolysis; Cation effect (Rossi, R.C. (981) 95)

Sodium pump; Kinetics; Potassium ion; Magnesium ion (Rossi, R.C. (981) 105)

Reconstituted lipid vesicle; Ion flux; Pump current; Coupling ratio (Clarke, R.J. (981) 326)

Ethylenediamine; Active site probe (Schuurmans Stekhoven, F.M.A.H. (982) 103)

Undernutrition; Myelin; 5′-Nucleotidase; Phospholipid fatty acid; Ganglioside; (Rat) (Shantharam, P. (982) 115)

ATP phosphohydrolase; Ouabain binding; Divalent cation; Rubidium-86 uptake; (Guinea-pig heart) (Hagane, K. (982) 279)

Cation sidedness; Phosphorylation; Liposome (Van der Hijden, H.T.W.M. (983) 142)

Quaternary structure; Dissociation-association equilibrium; Laser light scattering; (Canine kidney) (Hayashi, Y. (983) 217)

Infrared reflection spectroscopy; Attenuated total reflection (Fringeli, U.P. (984) 301)

ATPase inhibitor; Fatty acid; Hydrocarbon; (Bovine plasma) (Tal, D.M. (985) 55)

Radiation inactivation; Thallium binding; Potassium site (Jensen, J. (985) 248)

Ouabain-like factor, endogenous; Cardiac glycoside; Vanadate; Unsaturated fatty acid (Hansen, O. (986) 130)

Phosphorylation; Amine effect; Cytoplasmic side; Extracellular side (Van der Hijden, H.T.W.M. (987) 75)

Phosphatase, K^+-; Phosphate; Dimethyl sulfoxide; Water activity (Robinson, J.D. (994) 95)

Monoclonal antibody; (Horse kidney) (Satoh, K. (994) 104)

Enzyme conformation; Antibody binding site; Ion binding; Conformational transition (Friedman, M.L. (995) 42)

Phosphatase, K^+-; Dimethyl sulfoxide; pH; Metal (Robinson, J.D. (997) 41)

Non-equilibrium; Phosphorylation potential; NMR, ^{31}P-; (Human erythrocyte) (Petersen, A. (1012) 267)

ATPase protein
Sarcoplasmic reticulum; Skeletal muscle; Modification (Bailin, G. (995) 122)

ATPase, subunit 8
Proteolipid composition; Respiratory mutant; (*S. cerevisiae* mitochondria) (Manon, S. (985) 127)

Atrial natriuretic factor
Phosphoinositide hydrolysis; GTPase; (Cultured bovine smooth muscle cell) (Hirata, M. (1010) 346)

Atrial natriuretic peptide
Aldosterone; Adrenal cortex; cyclic GMP; (Chicken) (Rosenberg, J. (1014) 189)

Atriopeptin
Particulate guanylate cyclase; Receptor binding; Enzyme kinetics (Waldman, S.A. (999) 157)

Attenuated total reflection
ATPase, Na^+/K^+-; Infrared reflection spectroscopy (Fringeli, U.P. (984) 301)

ATX II
Sodium ion channel; Cardiac muscle; Toxin; S-DPI 201-106; Veratridine (Schreibmayer, W. (986) 172)

Autism
Adenylosuccinase; Adenylosuccinate lyase; Purine metabolism; Succinylpurine; Mental retardation; (Human) (Barshop, B.A. (999) 19)

Autoantibody
Binding protein; Cobalamin; Isoelectric focusing; Transcobalamin (Hansen, M. (992) 209)

Systemic lupus erythematosus; DNA synthesis; RNA synthesis; (Human) (Van Helden, P.D. (1009) 137)

Autoantigen
Galactose specific receptor; Electron microscopy; Receptor mediated endocytosis; (Rat Kuppfer cell); (Rat hepatocyte) (Schlepper-Schäfer, J. (1013) 266)

Autocrine control
Casein degradation; Mammary explant; Milking efficiency; (Goat) (Wilde, C.J. (992) 315)

Autofluorescence
Plasma membrane; Flavin; Riboflavin; Fluorescence photobleaching recovery; FRAP; (Rat liver) (Nokubo, M. (981) 303)

Autoimmune disorder
Dehydroisoandrosterone; Systemic lupus erythomatosis (Matsunaga, A. (992) 265)

Autolysis
Subtilisin; SDS-polyacrylamide gel electrophoresis; Protein folding (Owers Narhi, L. (990) 144)

Autoxidation
Superoxide dismutase deficiency; Polyunsaturated fatty acid; (*S. cerevisiae*) (Biliński, T. (1001) 102)

Auxin
Enzyme inactivation; Peroxidase; Isoenzyme; Indolylacetic acid oxidation (Acosta, M. (996) 7)

Calcium antagonist; Xyloglucan glycosyltransferase; Cell wall synthesis; (Pea) (Brummell, D.A. (1014) 298)

Avidin
Liposome fusion; Cationic detergent; Biotin; Chaotropic ion; Fluorescence energy transfer (Keren-Zur, M. (983) 253)

Axial ligand
Cytochrome *P*-450; Hemoprotein; Mutagenesis, site directed (Shimizu, T. (995) 116)

5-Azacytidine
DNA transfection; DNA methylation, de novo; HSV *tk* gene; Gene inactivation; (Human cell line) (Tasseron-de Jong, J.G. (1007) 215)

Gene expression; Thymidine kinase promoter; Hemimethylated *Eco*RI site; DNA methylation; (HSV *tk* gene); (Thymidine kinase deficient human cell) (Tasseron-de Jong, J. (1008) 62)

DNA methylation; Dwarf mutant; (*Zea mays*) (Sano, H. (1009) 35)

13-Azapinane
Receptor; Thromboxane A_2/prostaglandin H_2 receptor; Photoaffinity labeling; Thromboxane A_2; (Human platelet) (Mais, D.E. (1012) 184)

6-Azauridine
Pyrazofurin; Drug resistance; Orotidine-5′-phosphate decarboxylase; Osteoblastic cell; Adenosine kinase deficient cell; (Mouse) (Beidler, D.R. (1014) 101)

Azide
Oxygen consumption; Cytochrome; Inhibitor resistant respiration; (Frog); (Skate) (Kidder III, G.W. (973) 59)

Azide inhibition
Chloroplast; ATPase, H^+-; Enzyme regulation; Enzyme kinetics (Minkov, I.B. (973) 7)

ATPase, F_1-; Cooperativity; Unisite catalysis; Inhibitor protein, IF_1 (Harris, D.A. (974) 156)

2-Azido-ATP
ATPase, F_1-; Beta subunit; Chemical modification; Single site catalysis; (*E. coli*) (Bragg, P.D. (974) 24)

***p*-Azidobenzylphlorizin**
Glucose transporter; Anion transport protein; Band 3 protein; Band 4.5; ESR (Wyse, J.W. (979) 127)

***S*-(4-Azidophenacyl)glutathione**
Photoaffinity labeling; Glutathione *S*-transferase; Membrane vesicle; Transport; (Rat liver) (Kunst, M. (982) 15)

B

B-700
Sulfide; Electron transport; Cytochrome; (*O. Limnetica*) (Slooten, L. (973) 272)

Back inhibition
Calcium ion transport; Sarcoplasmic reticulum; ATP regulatory site; (Rabbit) (De Meis, L. (984) 373)

Bacterial adherence
Fibronectin; Extracellular matrix; Collagen; Laminin; (*C. jejuni*) (Kuusela, P. (993) 297)

Bacterial cell surface
Molecular surface composition; Transmission infrared spectroscopy; Fourier transform infrared spectroscopy; X-ray photoelectron spectroscopy (XPS) (Van der Mei, H.C. (991) 395)

Bacterial growth
Sodium ion/proton antiport; pH, alkaline; (*E. coli*) (McMorrow, I. (981) 21)

Bacterial membrane
NMR, ^{23}Na-; NMR, ^{31}P-; Ion transport; Monensin; (*S. faecalis*) (Delort, A.-M. (1013) 11)

Bacterial photosynthesis
Reaction center; Charge recombination; pH dependence; Protonation; (*Rps. viridis*) (Sebban, P. (974) 54)

Photosynthesis; Energy transfer; Picosecond spectroscopy; Fluorescence; Bacteriochlorophyll; (*Rb. sphaeroides*) (Shimada, K. (975) 72)

Photosynthesis; Reaction center; Raman spectroscopy; (*Rps. viridis*) (Zhou, Q. (977) 10)

Reaction center; Photosynthesis; Delayed fluorescence; Magnetic field effect; (*Rb. sphaeroides*) (Goldstein, R.A. (977) 70)

Reaction center; Photosynthesis; Delayed fluorescence; Magnetic field effect; (*Rb. sphaeroides*) (Goldstein, R.A. (977) 78)

Photosystem II; Electron acceptor; Iron semiquinone; (*P. laminosum*) (Hubbard, J.A.M. (977) 91)

Electron transfer; Reaction center; Photosynthesis; (*Rps. viridis*) (Krishtalik, L.I. (977) 200)

Nitrogen fixation; Nitrogenase regulation; Carbon/nitrogen balance; (*Rb. capsulatus*) (Moreno-Vivián, C. (977) 297)

Bacterial protein
Electron transfer protein; Protein structure; Redox protein (Meyer, T.E. (975) 1)

Bacterial reaction center
Thermodynamics; Stochastic process; Photosynthetic electron transport (Lavergne, J. (975) 346)

Bacteriochlorophyll
Photosynthesis; Gel electrophoretic filtration; Fluorescence; Chlorosome isolation; (*C. aurantiacus*) (Griebenow, K. (973) 235)

Photosynthesis; Bacterial photosynthesis; Energy transfer; Picosecond spectroscopy; Fluorescence; (*Rb. sphaeroides*) (Shimada, K. (975) 72)

Bacteriochlorophyll binding protein
Membrane protein; Amino acid sequence; Energy transfer; Proteoliposome chromatophore fusion (Tadros, M.H. (976) 161)

Bacterioferritin
Cytochrome *b*; Nonheme iron; (*N. winogradskyi*) (Kurokawa, T. (976) 135)

Bacteriophage α3
Origin mutant; Point mutation; Secondary structure; DNA sequence (Kodaira, K.-I. (1007) 359)

Bacteriophage DNA
Singlet molecular oxygen; Single strand breaks; Plasmid DNA; DNA; Transforming activity; (*E. coli*) (Di Mascio, P. (1007) 151)

Bacteriorhodopsin
M_{412} intermediate; Photoselection; Fourier transform infrared difference spectroscopy; Retinal (Breton, J. (973) 13)

Photocycle; Reconstitution; High pressure; Spectroscopy (Park, D.-G. (973) 19)

Hill plot; Harned's rule; Chloride ion activity; Blue acidic form; Purple acidic form (Drachev, A.L. (976) 190)

Proteolysis; Protein blotting; Microsequencing; Secondary structure model (Fimmel, S. (978) 231)

Freeze-fracture; Lateral phase separation; NMR, ^{31}P-; Protein aggregation; Dimyristoylphosphatidylcholine; Electron microscopy; (*H. halobium*) (Sternberg, B. (980) 117)

Papain proteolysis; Isoelectric focusing; Isoelectric form; Molecular weight form; (*H. halobium*) (Ross, P.E. (991) 134)

Bacteriorhodopsin structure
FT-IR; Amide proton exchange; Rhodopsin structure; Conformational change (Haris, P.I. (995) 160)

Band 3 protein
Glucose transporter; Anion transport protein; Band 4.5; *p*-Azidobenzylphlorizin; ESR (Wyse, J.W. (979) 127)

Anion transport; Erythrocyte; Dipyridamole (Legrum, B. (979) 193)

Melittin; Polylysine; Zinc ion; Erythrocyte membrane; Aggregation (Clague, M.J. (980) 93)

Erythrocyte; Anion transport; Proteolytic fragment; Amino acid sequence; (Mouse) (Raida, M. (980) 291)

Ankyrin; Cytoskeleton protein; Rotational mobility; (Human erythrocyte) (Clague, M.J. (981) 43)

Bisulfite; Bicarbonate; Sulfate; Colloid osmotic lysis; Anion transport; (Human erythrocyte) (Labotka, R.J. (981) 358)

Erythrocyte membrane; Sulfhydryl reagent; Affinity chromatography; (Human) (Werner, P.K. (982) 309)

Chronic myelogenous leukemia; Leukemia; Ankyrin binding site; (Human blood) (Kundu, M. (985) 97)

cRNA expression; Oligonucleotide-directed mutagenesis; Inhibitor binding site; (*Xenopus* oocyte) (Bartel, D. (985) 355)

Anion transport; Erythrocyte membrane; Dansyl chloride; Cotransport (Berghout, A. (986) 75)

Primary structure; Amino acid sequence; (Human); (Mouse) (Yannoukakos, D. (998) 43)

Band 4.5
Glucose transporter; Anion transport protein; Band 3 protein; *p*-Azidobenzylphlorizin; ESR (Wyse, J.W. (979) 127)

Basal lateral membrane
Brush-border membrane; Cholera toxin; ADP-ribosylation; GTP binding protein; Adenylate cyclase; (Rabbit intestine) (Longbottom, D. (1014) 289)

Base exchange reaction
Phospholipase D; Phosphatidylserine; Phosphatidylethanolamine; Phosphatidylcholine; (Bovine retina) (Mori, H. (1003) 98)

Base specificity
HPLC; Ribonucleolytic activity; Vacuolar ribonuclease; (*L. esculentum*) (Abel, S. (998) 145)

Basic amino acid transport
Amino acid transport; Lysine; Alanine; Sodium ion dependence; System y^+; (Guinea pig placenta) (Wheeler, C.P.D. (978) 257)

Basolateral membrane
Glutamine; Amino acid transport; (Rat intestine) (Ghishan, F.K. (979) 77)

Brush-border membrane; (Dog kidney cortex) (Hilden, S.A. (983) 77)

Basophilic leukemia cell
Arachidonic acid release; Ionophore A23187 (Froissart, P. (1002) 376)

Batten's disease
Ceroid lipofuscinosis; Dolichyl phosphate; Dolichyl pyrophosphoryl oligosaccharide; Lysosome; (Sheep) (Hall, N.A. (993) 245)

Bean storage protein
Circular dichroism; Derivative spectroscopy; Fluorescence; Proteolysis; Quenching; Surface hydrophobicity (Deshpande, S.S. (998) 179)

Becker muscular dystrophy
Calcium regulation; Muscle disease; Innervation; Duchenne muscular dystrophy (Martonosi, A. (991) 155)

Benzaldehyde
Aldehyde dehydrogenase; Peroxidatic aldehyde; (Mouse stomach) (Algar, E.M. (995) 168)

Benzene
Immunotoxicity; Immunomodulator; Poly IC; Bone marrow; Interferon (Pandya, K.P. (992) 23)

Benzoquinone
Chlorophyll fluorescence; Fluorescence quenching; Anthraquinone; Naphthoquinone; (Barley chloroplast) (Karukstis, K.K. (973) 124)

Beta oxidation
Dicarboxylic acid beta oxidation; Peroxisome; Mitochondrion; (Rat liver) (Suzuki, H. (990) 25)

Fatty acid oxidation; Peroxisomal β-oxidation; Fatty acid analog; (Morris hepatoma cell line) (Spydevold, (1003) 72)

Dicarboxylic acid; Fatty acyl-CoA oxidase; Peroxisome; Substrate inhibition (Poosch, M.S. (1006) 291)

Beta subunit
ATPase, F_1-; Chemical modification; 2-Azido-ATP; Single site catalysis; (*E. coli*) (Bragg, P.D. (974) 24)

ATPase F_1; Yeast mutant; Enzyme kinetics; Nucleotide; Negative cooperativity; (*S. pombe*) (Falson, P. (975) 119)

Bicarbonate
Band 3 protein; Bisulfite; Sulfate; Colloid osmotic lysis; Anion transport; (Human erythrocyte) (Labotka, R.J. (981) 358)

Bicarbonate effect
Electron transfer; Quinone; Photosynthetic bacterium; Chromatophore; Reaction center; Electron acceptor complex; Photosynthesis; (*Rb. sphaeroides*) (Shopes, R.J. (974) 114)

Protein phosphorylation; Photoinhibition; Light harvesting complex; Thylakoid membrane; (Spinach) (Sundby, C. (975) 277)

Bifunctional enzyme
Folylpolyglutamate; Formiminotransferase-cyclodeaminase; Enzyme kinetics; (Pig liver) (Findlay, W.A. (999) 52)

Bilayer
Phase separation; Lipophile; Fluorescence; NK-529; Cyanine dye (Yu, B.-Z. (980) 15)

Phase separation; Annealing; Phospholipase A_2; Lipid–protein interaction; Interfacial catalysis; Interfacial activation (Jain, M.K. (980) 23)

Phosphatidylinositol bilayer; Osmotic pressure; Lamellar repeat period; Neutron diffraction; X-ray diffraction (McDaniel, R.V. (983) 241)

Phospholipase A_2; Interfacial catalysis; Substrate specificity; Nonspecific inhibitor; Membrane fluidity (Jain, M.K. (1003) 91)

Bilayer stabilization
Membrane bilayer; Phase transition; Myelin basic protein (Fraser, P.E. (983) 23)

Bilayer thickness
Gramicidin; Hexagonal H_{II} phase formation; NMR, ^{31}P-; Small angle X-ray diffraction; Lipid polymorphism (Killian, J.A. (978) 341)

Bile
Bilirubin-IXβ; HPLC; (Eel); (*A. japonica*) (Sakai, T. (993) 128)

Cholesterol; Liver; Cholesterol transport; Lipoprotein (Robins, S.J. (1004) 327)

Phospholipase; Cholesterol nucleation; Gallstone disease; (Human) (Groen, A.K. (1006) 179)

Bile acid
Biliary secretion; Cholesterol metabolism; LDL; HDL; (Rat liver) (Bravo, E. (1003) 315)

Bile acid absorption
Intestinal transport; Ileum; cyclic AMP; Taurocholate; (Rat) (Reymann, A. (1011) 158)

Bile acid intermediate
Bile acid metabolism; HPLC; GC-MS; (Rat liver peroxisome) (Östlund Farrants, A.-K. (1002) 198)

Bile acid metabolism
Bile acid intermediate; HPLC; GC-MS; (Rat liver peroxisome) (Östlund Farrants, A.-K. (1002) 198)

Bile acid secretion
Lithocholic acid; (Rat) (Takikawa, H. (1004) 147)

Bile acid synthesis
Cytochrome *P*-450; Liver cell culture; (Rabbit); (Hepatocyte) (Whiting, M.J. (1001) 176)

Cholesterol concentration; Dietary cholesterol; (Rat); (Hepatocyte) (Sutton, C.M. (1001) 210)

Lipoprotein; Cholesterol synthesis; (Rabbit hepatocyte culture) (Whiting, M.J. (1005) 137)

Bile acid transformation
Hydroxysteroid dehydrogenase; Chenodeoxycholic acid; Ursodeoxycholic acid; (*Clostridium* sp.) (Edenharder, R. (1002) 37)

NAD(P) dependent hydroxysteroid dehydrogenase; Epimerization; Enzyme characterization; (*Ps. productus*) (Edenharder, R. (1004) 230)

Bile acid transport
Hepatocellular plasma membrane protein; Photoaffinity labeling; (Rat liver) (Ziegler, K. (980) 161)

Bile pigment
Heme catabolism; Heme oxygenase (Lincoln, B.C. (992) 49)

Bile salt
Microenvironment; Phosphatidylcholine; Cholesterol; Pyrene; Thiacarbocyanine (Matsuzaki, K. (980) 371)

Polyene antibiotic; Amphotericin B; Deoxycholate; Polydispersity; Spin label (Lamy-Freund, M.T. (981) 207)

Micelle–vesicle transition; Phosphatidylcholine; Drug entrapment; Quasi-elastic light scattering; Transmission electron microscopy (Son, K. (981) 288)

Albumin–bile salt interaction; Fluorescence titration; Binding; Thermodynamics (Pico, G.A. (999) 128)

Cholesterol oxidase; Electrochemistry; Enzyme activity (Cheillan, F. (999) 233)

Lithocholate metabolism; Bile salt sulfate; (Rat hepatocyte) (Galle, P.R. (1003) 250)

Bile salt dependent lipase; Activation; Kinetics; Boronic acid; Inhibition; (Human) (Abouakil, N. (1004) 215)

Bile salt dependent lipase
Bile salt; Activation; Kinetics; Boronic acid; Inhibition; (Human) (Abouakil, N. (1004) 215)

Bile salt stimulated lipase
Chemical modification; Enzyme inhibition; (Human skim milk) (Abouakil, N. (1002) 225)

Cholesterol esterase; carboxylester lipase; Enzyme purification (Camulli, E.D. (1005) 177)

Bile salt sulfate
Lithocholate metabolism; Bile salt; (Rat hepatocyte) (Galle, P.R. (1003) 250)

Biliary epithelium carcinoma cell line
Bilirubin metabolism; Carrier mediated transport; (Human liver) (Stremmel, W. (1014) 108)

Biliary lipoprotein
Phospholipase A_2; Duodenum; Pancreas; (Human) (Kozumplik, V. (1002) 395)

Biliary secretion
Bile acid; Cholesterol metabolism; LDL; HDL; (Rat liver) (Bravo, E. (1003) 315)

Biliprotein
Phycoerythrin 566; Photosynthetic pigment; Energy migration; Fluorescence; Cryptoviolin (Guard-Friar, D. (973) 118)

Bilirubin
Albumin; Jaundice; Anion transport; Hepato-renal syndrome; Protein binding; (Rat) (Sugi, K. (987) 217)

Poly(L-lysine); Induced circular dichroism; Dimer/oligomer; Absorption/circular dichroism spectrum; Alpha helix conformation (Bouvier, M. (991) 303)

Bilirubin oxidase; Bilirubin oxidase derivative; Bilirubin degradation; (Plasma) (Sugi, K. (991) 405)

Lipid peroxidation; Vitamin E; Biliverdin; Antioxidant; Synergism (Stocker, R. (1002) 238)

Bilirubin degradation
Bilirubin; Bilirubin oxidase; Bilirubin oxidase derivative; (Plasma) (Sugi, K. (991) 405)

Bilirubin-IXβ
HPLC; Bile; (Eel); (*A. japonica*) (Sakai, T. (993) 128)

Bilirubin metabolism
Carrier mediated transport; Biliary epithelium carcinoma cell line; (Human liver) (Stremmel, W. (1014) 108)

Bilirubin oxidase
Bilirubin; Bilirubin oxidase derivative; Bilirubin degradation; (Plasma) (Sugi, K. (991) 405)

Bilirubin oxidase derivative
Bilirubin; Bilirubin oxidase; Bilirubin degradation; (Plasma) (Sugi, K. (991) 405)

Bilirubin oxidation
Immobilized enzyme (Daka, N.J. (991) 487)

Bilitranslocase
Sulfobromophthalein; Electrogenic transport; Plasma membrane; (Rat liver) (Miccio, M. (981) 115)

Biliverdin
Lipid peroxidation; Vitamin E; Bilirubin; Antioxidant; Synergism (Stocker, R. (1002) 238)

Binding
Albumin–bile salt interaction; Fluorescence titration; Bile salt; Thermodynamics (Pico, G.A. (999) 128)

Binding affinity
Cellular senescence; Oligosaccharide; NMR (Busse, S.C. (984) 183)

Binding characteristic
Progesterone receptor; Endometrium; Myometrium; Antiprogestin ZK 98.299; Relative binding affinity; (Human) (Puri, C.P. (1011) 176)

Binding interaction
S-Adenosyl-L-methionine; Sodium poly(styrene sulfonate); Ultrafiltration; Stacking (Barbato, G. (991) 324)

Binding isotherm
Magainin 1; Membrane permeability; Lipid charge; Secondary structure (Matsuzaki, K. (981) 130)

Binding kinetics
Immune complex; Erythrocyte CR1; Systemic lupus erythematosus (Meryhew, N.L. (991) 470)

Binding mode
Anesthesia mechanism; Partition coefficient; Lipid/water interface; Surfactant micelle; Volatile anesthetic (Yoshida, T. (985) 331)

Binding protein
Autoantibody; Cobalamin; Isoelectric focusing; Transcobalamin (Hansen, M. (992) 209)

Insulin-like growth factor 1; Insulin-like growth factor 2; Somatomedin; Receptor (Carlsson-Skwirut, C. (1011) 192)

Binding site
Factor VIII; Protein C, activated; Fluorescence energy transfer (Fay, P.J. (994) 142)

Binding study
Amphiphilic drug; Lamellar body; (Rat lung) (Joshi, U.M. (1004) 309)

Binding substance
Hemagglutinating activity; Heat labile enterotoxin; (*E. coli*) (Sugii, S. (980) 155)

Heat-labile enterotoxin; Enterotoxin; (Chicken); (*E. coli*) (Sugii, S. (983) 30)

Bioassay
Plasminogen activator; Lectin (Electricwala, A. (990) 53)

Bioelectric field effect
Myelin figure; Phosphatidylcholine (Mishima, K. (985) 351)

Biogenesis
Microbody; Peroxisome; Glyoxysome; Glycosome; Protein translocation; Topogenesis (Borst, P. (1008) 1)

Biological activity
7-*cis*-11-*trans*-Lipoxin A_4; Stereochemistry; Chemical synthesis (Nicolaou, K.C. (1003) 44)

Biologic membrane
Calpastatin; Phospholipid; Membrane binding; Calpain; Calcium dependent proteolysis (Mellgren, R.L. (999) 71)

Biosensor
Supported bilayer; Langmuir-Blodgett film; Protein adsorption; Lipid bilayer; Microelectrophoresis (Stelzle, M. (981) 135)

Biosynthesis
Collagen; Fibronectin; Smooth muscle cell; Heparin fragment; Modulation; (Pig) (Asselot-Chapel, C. (993) 240)

Biotin
Liposome fusion; Cationic detergent; Avidin; Chaotropic ion; Fluorescence energy transfer (Keren-Zur, M. (983) 253)

Biotinidase
Lipoamidase; (Guinea pig liver) (Oizumi, J. (991) 410)

Bis(monoacylglycero)phosphate
Transacylase; Macrophage lysosome (Huterer, S.J. (1001) 68)

Bisulfite
Band 3 protein; Bicarbonate; Sulfate; Colloid osmotic lysis; Anion transport; (Human erythrocyte) (Labotka, R.J. (981) 358)

Black lipid membrane
α-Latrotoxin channel; Presynaptic neurotoxin, two barrier model (Robello, M. (978) 179)

Multi-state channel; Pore-forming protein; (*E. histolytica*) (Keller, F. (982) 89)

Model membrane; Membrane potential; Cable equation; Glycerol monooleate; Gramicidin (Fromherz, P. (987) 222)

Blastulation
RNA synthesis; Development; Formycin inhibition; Starfish embryo; (*A. pectinifera*) (Isomura, H. (1007) 343)

Bleomycin
Ion-bleomycin complex; Mössbauer; ESR; NMR (Levy, A. (991) 97)

Nascent chromatin; Chromatin aggregation; Chromatin fragmentation; Chromatin maturation; (Mouse L1210 nuclei) (Woynarowski, J.M. (1007) 116)

Bleomycin hydrolase
Intrinsic resistance; Intracellular degradation; Enzyme distribution; Monoclonal antibody; (Chinese hamster cell line) (Nishimura, C. (1012) 29)

Blood
Mercury; Elemental mercury; Inorganic mercury; Exhalation; (Lung) (Magos, L. (991) 85)

Actin; Vitamin D binding protein (Gc); Gelsolin; (Human) (Ohsawa, M. (992) 195)

Blood-brain barrier
Taurine; Amino acid transport; Sodium ion dependence; Brain capillary; (Rat) (Tayarani, I. (985) 168)

HDL; (Bovine brain endothelial cell) (Martin-Nizard, F. (1005) 201)

Blood coagulation
Factor X; Thrombin generation; (Plasma) (Hemker, H.C. (992) 409)

Blood group activities, MN
Monkey erythrocyte membrane; Glycophorin MK; Amino Acid Sequence (Murayama, J.-I. (999) 273)

Blood surrogate
Hemoglobin; Liposome; Octyl glucoside; Octyltetraoxyethylene; (Human blood) (Jopski, B. (978) 79)

Blue acidic form
Bacteriorhodopsin; Hill plot; Harned's rule; Chloride ion activity; Purple acidic form (Drachev, A.L. (976) 190)

Bone formation
Retinoic acid; Vitamin A; (Chick bone cell) (Dickson, I.R. (1013) 254)

Bone marrow
Benzene; Immunotoxicity; Immunomodulator; Poly IC; Interferon (Pandya, K.P. (992) 23)

Bone marrow macrophage
Lipoprotein lipase; Macrophage; Colony stimulating factor; (Mouse) (Goldman, R. (1001) 120)

Bone metabolism
Epstein-Barr virus; Transformed B cell; Interleukin 1; Cell proliferation; (Human blood cell) (Hanazawa, S. (1012) 57)

Bone mineral
Crystallinity; Crystal disorder; Age (Matsushima, N. (992) 155)

Borohydride
Carotenoid; Reaction center; Triplet energy transfer; (*Rb. sphaeroides*) (Frank, H.A. (976) 222)

Boronate chromatography
Cytokinin; *miaA*; Radioimmunoassay; HPLC; tRNA independent cytokinin-like compound; (*S. typhimurium (miaA)*) (Blum, P.H. (1007) 196)

Boronic acid
Bile salt dependent lipase; Bile salt; Activation; Kinetics; Inhibition; (Human) (Abouakil, N. (1004) 215)

Bound ADP
CF_1; Thylakoid; Chloroplast ATPase; Sulfite; Activation (Larson, E.M. (973) 78)

Boundary lipid
Melittin; Protein–lipid interaction; Protein aggregation; DSC (Bradrick, T.D. (982) 94)

Bovine
Antigen, S-; Amino terminal sequence; Uveitogenic peptide (Tsunasawa, S. (994) 191)

Bovine adrenal medulla
Prostaglandin D_2; cyclic AMP formation; (Bovine fibroblast) (Sugama, K. (1011) 75)

Bovine serum albumin
Thyroid hormone; 3,3′,5′-Triiodo-L-thyronine; Reverse T_3; Fluorescence (Okabe, N. (990) 303)

Bradykinin
Glucose absorption; Glucose metabolism; Commercial diet; (Rat small intestine) (Kellett, G.L. (992) 128)

Cerebroside sulfate; Phosphatidylinositol; Peptide–lipid interaction; Fluorescence (Rao, A.G.A. (997) 278)

Bradykinin antagonist
Prostaglandin synthesis; Prostaglandin E_2; Calcium; Cytosolic free calcium; Renin synthesis; (Rabbit vascular smooth muscle cell) (Dussaule, J.-C. (1005) 34)

Brain capillary
Blood-brain barrier; Taurine; Amino acid transport; Sodium ion dependence; (Rat) (Tayarani, I. (985) 168)

Brain nerve tissue
Cholesterol synthesis; Cholesterol precursor precursor; Myelinogenesis; (Mouse); (Rat) (Bourre, J.M. (1004) 387)

Branched chain aminotransferase
Aminotransferase assay; Transaminase assay (Airas, R.K. (992) 397)

Breast tumor cell
Radical formation; Paraquat; Adriamycin; (Human) (Sinha, B.K. (1010) 304)

Brefeldin A
Protein synthesis; Protein secretion; (Oviduct cell); (Egg white); (*C. coturnix japonica*) (Kato, S. (991) 36)

Broad host range
DNA replication; Plasmid RK2; *trfA* gene; (*E. coli*); (*P. aeruginosa*); (*P. putida*) (Shingler, V. (1007) 301)

1-Bromo-2-[^{14}C]pinacolone
Acetylcholinesterase; Active site directed inactivator; 5-Trimethylammonio-2-pentanone; Diisopropyl fluorophosphate, ^{3}H-labeled (Cohen, S.G. (997) 167)

α-Bromopalmitate
Fatty acid; Triacylglycerol; Cholesterol; Fatty acid binding protein; (Rat serum) (Hagve, T.-A. (1004) 143)

Bromoperoxidase
Vanadium enzyme; Immunological property; Rhodophyta; (*C. pilulifera*) (Krenn, B.E. (998) 63)

Bromotrichloromethane
NMR, ^{31}P-; Hepatotoxicity; Carbon tetrachloride; Halocarbon; Hepatotoxin (Towner, R.A. (993) 92)

Brown adipose tissue
Glucose uptake; Alanine uptake; Glucose oxidation; Alanine oxidation; (Rat) (López-Soriano, F.J. (1010) 338)

Brush-border membrane
Glutamine transport; (Rat jejunum) (Van Voorhis, K. (978) 51)

D-Glucose; Fish oil; Butter fat; Lipid fluidity; Fatty acid; (Rat small intestine) (Brasitus, T.A. (979) 177)

Reflection coefficient; Light scattering; Refractive index; Osmotic permeability; (Rat kidney) (Van der Goot, F. (979) 272)

Toxin; Phosphate transport; (Rabbit) (Al-Mahrouq, H.A. (981) 200)

Lipid peroxidation; Protein conformation; Fluorometry; *N*-(1-Pyrene)maleimide; (Porcine small intestine) (Ohyashiki, T. (981) 235)

Basolateral membrane; (Dog kidney cortex) (Hilden, S.A. (983) 77)

Lipid peroxidation; ATPase, Ca^{2+}-; Oxidative damage; (Porcine small intestine) (Ohta, A. (984) 151)

Intestinal transport; Sodium ion cotransport; Alanine transport; Proline transport; (*A. anguilla*) (Vilella, S. (984) 188)

Taurine transporter; Sodium ion binding site; Tyrosine; (Human placenta) (Kulanthaivel, P. (985) 139)

Glutathione transporter; Glutathione inhibitor; Membrane potential; (Rabbit small intestine) (Vincenzini, M.T. (987) 29)

Calmodulin binding protein; Calcium binding; Calcium ion transport (Bikle, D. (1010) 122)

Phosphate transport; Protein kinase C; Renal tubule; Phorbol myristate acetate (Boneh, A. (1012) 308)

Basal lateral membrane; Cholera toxin; ADP-ribosylation; GTP binding protein; Adenylate cyclase; (Rabbit intestine) (Longbottom, D. (1014) 289)

Brush-border membrane vesicle
Thiol group; Modifying agent; Peptide transport; (Rabbit kidney) (Miyamoto, Y. (978) 25)

Antibiotic; Cephalexin; Carrier mediated transport; (Human placenta) (Kudo, Y. (978) 313)

Uridine transport; Active nucleoside transport; Sodium ion dependence; (Rabbit intestine) (Jarvis, S.M. (979) 132)

Membrane fluidity; Lipid–protein interaction; ESR; Lipid composition; Dietary fatty acid; (Porcine small intestine) (Christon, R. (980) 77)

Sodium ion–proton exchange; Conductive transport; (Human ileum) (Ramaswamy, K. (981) 193)

Phosphate transport kinetics; Phosphate deprivation; *Hyp* mutation; Phosphonoformic acid; (Mouse kidney) (Tenenhouse, H.S. (984) 207)

Amino acid transport; Cross-inhibition analysis; (Guinea-pig intestine) (Satoh, O. (985) 120)

Tripeptide transport; Sodium gradient; Papain; (Human jejunum) (Wilson, D. (986) 123)

Brush-border vesicle
Chloride conductance; Conductance inhibitor; Jejunum; (Pig) (Forsyth, G.W. (977) 19)

Bumetanide
Inhibitin; Ouabain; Promyelocyte; Sodium efflux; (Human erythrocyte) (Morgan, K. (979) 53)

L-Buthionine (*S*,*R*)sulfoximine
Iron overload; Ethane; Lipid peroxidation; Glutathione; (Mouse) (Kawabata, T. (1004) 89)

Butter fat
D-Glucose; Brush-border membrane; Fish oil; Lipid fluidity; Fatty acid; (Rat small intestine) (Brasitus, T.A. (979) 177)

Butylated hydroxytoluene
Probucol; Linoleic acid; Peroxidation; Cholesterol esterification; Cholesterol secretion (Stein, O. (1003) 115)

***tert*-Butylhydroperoxide**
Alkoxyl radical; Peroxyl radical; Oxidative stress; (Human erythrocyte) (Van der Zee, J. (980) 175)

C

Cable equation
Model membrane; Membrane potential; Black lipid membrane; Glycerol monooleate; Gramicidin (Fromherz, P. (987) 222)

Cachectin/tumor necrosis factor
Interleukin-1; Lipoprotein lipase; Synergism; (Mouse 3T3-L1 adipocyte) (Ogawa, H. (1003) 131)

Cadmium
T cell activation; Interleukin 2; Protein kinase C; Phosphatidylinositol hydrolysis; (Human) (Cifone, M.G. (1011) 25)

Prostaglandin E_2 synthesis; Cyclooxygenase; (Mouse osteoblast-like cells) (Suzuki, Y. (1012) 135)

Cadmium ion
Cadmium resistance; Metallothionein; (*S. cerevisiae* 301N) (Inouhe, M. (993) 51)

Cadmium resistance
Cadmium ion; Metallothionein; (*S. cerevisiae* 301N) (Inouhe, M. (993) 51)

Caffeine
DNA unwinding; Intercalation; DNA–drug interaction (Tornaletti, S. (1007) 112)

Potassium ion efflux; Calcium ion; Oscillation; cyclic AMP; (*Dictyostelium*) (Aeckerle, S. (1012) 196)

Calcitonin
CGRP-I; Alternative splicing; mRNA; Gene expression; (Human) (Bovenberg, R.A.L. (1008) 223)

Calcium
Oxygen evolution; Photosystem II; Extrinsic protein; Light harvesting chlorophyll II; (Spinach) (Enami, I. (977) 33)

Planar bilayer; Ganglioside; Serotonin (Matinyan, N.S. (984) 313)

Serine proteinase; Collagen; Fibronectin; Extracellular matrix; (Malignant hamster embryo fibroblast); (Nil2C2) (Sakiyama, H. (990) 156)

Prothrombin fragment 1; Conformational change; (Human) (Lau, H.K.F. (996) 95)

CTP : phosphocholine cytidylyltransferase; Enzyme translocation; Phosphatidylcholine synthesis; (Rat hepatocyte) (Sanghera, J.S. (1003) 284)

Lipoprotein lipase; Enzyme activity; Ionophore A23187; Thrombin; (Rat adipocyte) (Soma, M.R. (1003) 307)

Bradykinin antagonist; Prostaglandin synthesis; Prostaglandin E_2; Cytosolic free calcium; Renin synthesis; (Rabbit vascular smooth muscle cell) (Dussaule, J.-C. (1005) 34)

Thyrotropin; Potassium depolarization; Phosphoinositide; Cytoplasmic calcium; Pituitary cell; (Bovine) (Wood, C.A. (1013) 97)

Calcium activated neutral proteinase
Proteinase; Localization; Crosslinking; Erythrocyte membrane (Sakai, K. (985) 51)

Calcium activated potassium efflux
Charybdotoxin; Inhibition; Potassium ion efflux; Sickling-unsickling cycle; (Human sickle red blood cell) (Ohnishi, S.T. (1010) 199)

Calcium activated potassium ion channel
Potassium ion channel; Patch clamp; Propanolol; Flux measurement; (Human erythrocyte) (Schwarz, W. (978) 32)

Potassium ion channel; Atebrin; Menadione; Oxidoreductase; Lead; (Human erythrocyte) (Fehlau, R. (978) 37)

Calcium adsorption
Phosphatidylcholine vesicle; Fluorescence anisotropy; Mixed bilayer; Calcium ion asymmetry (Bakás, L.S. (979) 352)

Calcium allosteric inhibition
Thioredoxin reductase; Thioredoxin activation; (Human melanoma) (Schallreuter, K.U. (997) 242)

Calcium analog
ESR; Calmodulin; Calcium binding; Fourier transform infrared; (Rat testis) (Rainteau, D. (1011) 81)

Calcium antagonist
Auxin; Xyloglucan glycosyltransferase; Cell wall synthesis; (Pea) (Brummell, D.A. (1014) 298)

Calcium binding
Fluorescence spectroscopy; Discoidin I; Sugar binding; Sugar binding site; (*D. discoideum*) (Valencia, A. (990) 93)

Fibrinogen; [A]α chain; Surface labeling; Crosslinking (Apap-Bologna, A. (995) 70)

Aldolase–myofibril interaction; Muscle myofibril; Troponin (Harris, S.J. (999) 95)

Calmodulin binding protein; Brush-border membrane; Calcium ion transport (Bikle, D. (1010) 122)

ESR; Calmodulin; Calcium analog; Fourier transform infrared; (Rat testis) (Rainteau, D. (1011) 81)

Calcium binding domain
E-F hand structure; cDNA; Calcium binding protein; (Mouse poly(A)$^+$ RNA) (Kageyama, H. (1008) 255)

Calcium binding protein
Membrane; (Ehrlich ascites tumor cell) (Kristensen, B.I. (978) 72)

Sarcoplasmic reticulum; Endoplasmic reticulum; Calregulin homology (Fliegel, L. (982) 1)

Calcium binding domain; E-F hand structure; cDNA; (Mouse poly(A)$^+$ RNA) (Kageyama, H. (1008) 255)

Parvalbumin; Oncomodulin; Gene organization; Gene regulation; Tissue-specific gene expression (Berchtold, M.W. (1009) 201)

Calcium binding site
ATPase, (Ca^{2+} + Mg^{2+})-; *N*-Cyclohexyl-*N'*-(4-dimethylamino-1-naphthyl)carbodiimide; Spin label; Fluorescein isothiocyanate; (Rabbit skeletal muscle) (Munkonge, F. (979) 113)

Calcium blocker inhibition
Phosphatidylcholine peroxidation; Spin trapping; Stobadine inhibition; Nifedipine radical (Ondriaš, K. (1003) 238)

Calcium channel blocker
Electron transport; Chloroplast; Oxygen evolving system (Semin, B.K. (975) 239)

Calcium chelator
Transferrin receptor; Cytoskeleton; Reticulocyte (Morgan, E.H. (981) 121)

Calcium dependence
Lipopeptide antibiotic; A21978C; LY146032; Daptomycin; Dimyristoylphosphatidylcholine (Lakey, J.H. (985) 60)

Calcium dependent proteinase
ATPase, Ca^{2+}-; Erythrocyte membrane; (Human) (Au, K.S. (978) 197)

Calcium dependent proteolysis
Calpastatin; Phospholipid; Biologic membrane; Membrane binding; Calpain (Mellgren, R.L. (999) 71)

Calcium efflux
Carotid body; Catecholamine secretion; Hypoxia; Voltage sensitive calcium channel; (Rat) (Shaw, K. (1013) 42)

Calcium extraction
Oxygen evolution; S state; Thermoluminescence; ESR; Photosynthesis (Ono, T.-a. (973) 443)

Calcium ion
Photosystem II; Water oxidation; Photoactivation; Manganese complex; (Wheat) (Tamura, N. (976) 173)

Secretion; Thrombin; Sodium ion–proton exchange; (Human platelet) (Alonso, M.T. (981) 367)

Mitogenesis; Hormone receptor; Calcium ionophore; Ionomycin; Lymphocyte activation; Calmodulin (Jy, W. (983) 153)

Metalloproteinase; V-8 serine proteinase; Apometalloproteinase; (*S. aureus*) (Potempa, J. (993) 301)

Phosphatidylinositol 4-phosphate; Phosphatidylinositol 4,5-bisphosphate; Phosphatidylinositol-4-phosphate kinase; Trifluoperazine; (Bovine adrenal medulla) (Husebye, E.S. (1010) 250)

Heavy metal cation; Divalent cation; Granule secretion; Digitonin; Polymorphonuclear leukocyte; Sulfhydryl oxidation; (Human neutrophil) (Sandborg, R.R. (1010) 330)

Insulin release; Pancreatic islet; Priming; (Rat) (Chalmers, J.A. (1011) 46)

Potassium ion efflux; Caffeine; Oscillation; cyclic AMP; (*Dictyostelium*) (Aeckerle, S. (1012) 196)

Mercury chloride; Toxicology; Mitochondrion; Cell death; (Sea urchin egg) (Walter, P. (1012) 219)

Sodium ion–proton exchanger; ATP, extracellular; Protein kinase C; (Bovine aortic endothelial cell) (Kitazono, T. (1013) 152)

cyclic AMP; Cell growth; Mastocytoma cell; (Mouse) (Lints, T. (1013) 287)

Inositol 1,4,5-trisphosphate; Aging (Maki, T. (1014) 73)

Pyruvate dehydrogenase; Cell permeabilization; (Rat heart mitochondria) (Rutter, G.A. (1014) 263)

Calcium ion accumulation
Sarcoplasmic reticulum; Muscle culture; Skinned muscle (Brik, H. (980) 273)

Calcium ion activated potassium ion channel
Potassium ion channel; Anesthetic; Volatile anesthetic; Glioma cell; Charybdotoxin; Calcium ionophore (Tas, P.W.L. (983) 264)

Calcium ion activity, intracellular
cyclic AMP; Phorbol ester; Inositol polyphosphate; Phosphate transport; (Opossum kidney cell) (Quamme, G. (1013) 166)

Calcium ion asymmetry
Phosphatidylcholine vesicle; Calcium adsorption; Fluorescence anisotropy; Mixed bilayer (Bakás, L.S. (979) 352)

Calcium ion binding protein
Circular dichroism, induced; Trifluoperazine fluorescence; Fluorescence, trifluoperazine; S100 protein (Ogoma, Y. (997) 188)

1,25-Dihydroxyvitamin D-3; Muscle; Myoblast; Myoblast protein synthesis (Drittanti, L.N. (1012) 16)

Calcium ion buffer
Calcium ion, intracellular; cyclic AMP; Secretagogue; Fura-2; (Rabbit gastric mucosa) (Michelangeli, F. (983) 82)

Calcium ion channel
Tubulin, T-; Nifedipine; Protein, 60 kDa; Antibody; (Heart cell beating) (Chatterjee, D. (984) 104)

Plasma membrane calcium ion inflow; Metal ion inhibitor; Calcium receptor; (Rat hepatocyte) (Hughes, B.P. (1013) 197)

Nicardipine; Verapamil; (Barnacle muscle fiber) (Xie, H. (1014) 207)

Calcium ion, cytoplasmic
ATP; Fura-2; Phorbol myristate acetate; (Human neutrophil) (Kuroki, M. (1012) 103)

ATP, extracellular; Receptor operated channels; (Rat pancreatic β-cell line (HIT)) (Geschwind, J.-F. (1012) 107)

Calcium ion, cytosolic
cyclic AMP; Potassium ion channel; Acid secretion; (Rat cultured parietal cell) (Ueda, S. (1012) 254)

Phorbol ester; fMet-Leu-Phe; pH, intracellular; (HL60 cell) (Ladoux, A. (1013) 55)

Calcium ion dependence
Potassium ion channel; Potassium ion transport; Snake venom; Erythrocyte (Alvarez, J. (980) 134)

Calpain; Calpastatin; Proteinase; (Chicken muscle) (Wolfe, F.H. (998) 236)

Ionophore A23187; Angiotensin converting enzyme; Protein synthesis; (Bovine endothelial cell) (Dasarathy, Y. (1010) 16)

Calcium ion dependent transport
Cation transport; Quinine; Sodium ion transport; Potassium ion transport; (Ehrlich cell) (Smith, T.C. (978) 169)

Calcium ion effect
ATPase, Ca^{2+}-; ATPase dimer; Sarcoplasmic reticulum (Keresztes, T. (984) 326)

Calcium ion entry blocker
Calcium ion transport, passive; Vanadate; Quin2; (Erythrocyte) (Engelmann, B. (981) 36)

Calcium ion, extracellular
Divalent cation; Proton; Hemolytic agent; Membrane damage; Zinc ion, extracellular; Plasma membrane (Bashford, C.L. (983) 56)

Arachidonic acid metabolism; Calcium ion, intracellular; Protein kinase C; Dioctanoylglycerol; (Human platelet) (Ozaki, Y. (1012) 87)

Calcium ion flux
cyclic GMP; Nitroprusside; Fluoroaluminate; Protein kinase C; (Human platelet) (Deana, R. (1014) 203)

Calcium ion homeostasis
Cell injury; Iron concentration; Lipid peroxidation; Ion transport; (Rat liver mitochondria) (Masini, A. (1014) 133)

Calcium ion influx
Platelet membrane potential; Platelet aggregation; Sodium ion conductance; (Human blood) (Palés, J. (980) 33)

Calmodulin; Calmodulin antagonist; (Sea urchin sperm) (Guerrero, A. (980) 109)

Calcium ion, intracellular
Sodium–sodium ion exchange; Calcium–sodium ion exchange; Chelation; (Squid axon) (DiPolo, R. (978) 328)

cyclic AMP; Secretagogue; Calcium ion buffer; Fura-2; (Rabbit gastric mucosa) (Michelangeli, F. (983) 82)

Arachidonic acid metabolism; Calcium ion, extracellular; Protein kinase C; Dioctanoylglycerol; (Human platelet) (Ozaki, Y. (1012) 87)

Lymphocyte; Muscular dystrophy; (Human lymphocyte) (Mechler, F. (1012) 227)

Sodium ion, intracellular; Magnesium ion, intracellular; Reticulocyte; Erythrocyte; (Guinea pig blood) (Jelicks, L.A. (1012) 261)

Inositol lipid metabolism; Cholinergic receptor; Verapamil; Phorbol ester; (Bovine anterior pituitary cell) (Wood, C.A. (1013) 180)

Calcium ion, intramitochondrial
Fura-2; Calcium transport, mitochondrial; (Heart mitochondria) (McCormack, J.G. (973) 420)

Calcium ion mobilization
Platelet aggregation; Structure–activity relationship; Phenol derivative; Fluorescence; (Bovine platelet) (Kitagawa, S. (1011) 52)

Platelet aggregation; Ionophore; Sodium ion, intracellular; pH, intracellular; (Bovine blood) (Kitagawa, S. (1011) 117)

Calcium ionophore
Mitogenesis; Hormone receptor; Calcium ion; Ionomycin; Lymphocyte activation; Calmodulin (Jy, W. (983) 153)

Calcium ion activated potassium ion channel; Potassium ion channel; Anesthetic; Volatile anesthetic; Glioma cell; Charybdotoxin (Tas, P.W.L. (983) 264)

Alkaline phosphatase; Calmodulin; Calcium metabolism; 1,25-Dihydroxyvitamin D-3; (Rat organs) (Komoda, T. (990) 165)

Leukocyte; Neutrophil cytoplast; Respiratory burst; (Human) (Dahlgren, C. (1010) 41)

Calcium ion permeability
Polyene antibiotic; Amphotericin B; Liposome; Large unilamellar vesicle; Cholesterol; Ergosterol; Arsenazo III (Ramos, H. (982) 303)

Calcium ion pump
ATPase, Ca^{2+}-; Calmodulin; Compound 48/80; EGTA; Erythrocyte; (Human) (Rossi, J.P.F.C. (996) 153)

Calcium ion regulation
Troponin; Tropomyosin; Protein phosphorylation; Cardiac muscle (Raggi, A. (997) 135)

Calcium ion release
Silver ion effect; Sarcoplasmic reticulum; (Rabbit skeletal muscle) (Moutin, M.-J. (984) 289)

Arachidonic acid; Inositol trisphosphate; Fura-2; Platelet membrane; (Human) (Tohmatsu, T. (1012) 97)

Inositol 1,4,5-trisphosphate; cyclic AMP; Saponin; Platelet; (Human) (Tohmatsu, T. (1013) 190)

Calcium ion release inhibition
Quinacrine; Sarcoplasmic reticulum; (Rabbit muscle) (Fernandez-Belda, F. (985) 279)

Calcium ion transport
Liposome; Mitochondrial lipid; Cardiolipin; Phosphatidylethanolamine; Arsenazo III (Kester, M.B. (980) 127)

Lysophospholipid; Phospholipase A_2; (Rat liver mitochondria) (Lenzen, S. (982) 140)

Arachidonic acid; Fatty acid; Phospholipase A_2; (Rat liver mitochondria) (Rustenbeck, I. (982) 147)

Indo-1; Platelet aggregation; ATP secretion; (Human blood) (Magócsi, M. (984) 88)

Back inhibition; Sarcoplasmic reticulum; ATP regulatory site; (Rabbit) (De Meis, L. (984) 373)

Plasticizer; Di(2-ethylhexyl) phthalate; Adenine nucleotide translocator; Mitochondrion; (Rat liver) (Kora, S. (985) 286)

Mercury ion; Mitochondrial membrane (Chávez, E. (986) 27)

Calmodulin binding protein; Brush-border membrane; Calcium binding (Bikle, D. (1010) 122)

Calcium ion transport, passive
Calcium ion entry blocker; Vanadate; Quin2; (Erythrocyte) (Engelmann, B. (981) 36)

Calcium metabolism
Alkaline phosphatase; Calmodulin; Calcium ionophore; 1,25-Dihydroxyvitamin D-3; (Rat organs) (Komoda, T. (990) 165)

Calcium pump
Compound 48/80; Calmodulin; Sodium/potassium pump; ATPase, Mg^{2+}- (Di Julio, D. (981) 337)

Erythrocyte plasma membrane; ATPase, Ca^{2+}-; Conformational state; Circular dichroism; Fluorescence energy transfer; Fluorescence quenching; (Porcine blood) (Wrzosek, A. (986) 263)

Calcium receptor
Plasma membrane calcium ion inflow; Metal ion inhibitor; Calcium ion channel; (Rat hepatocyte) (Hughes, B.P. (1013) 197)

Calcium regulation
Sodium–calcium ion exchange; Synaptosome; (Rat brain) (Nachshen, D.A. (979) 305)

Muscle disease; Innervation; Duchenne muscular dystrophy; Becker muscular dystrophy (Martonosi, A. (991) 155)

Calcium signal
Epidermal growth factor; Ionic channel; Patch clamp; (Human carcinoma cell) (Mozhayeva, G.N. (1011) 171)

Calcium–sodium ion exchange
Sodium–sodium ion exchange; Chelation; Calcium ion, intracellular; (Squid axon) (DiPolo, R. (978) 328)

Calcium transport, mitochondrial
Fura-2; Calcium ion, intramitochondrial; (Heart mitochondria) (McCormack, J.G. (973) 420)

Calcium uptake
Magnesium deficiency; Cellular membrane phospholipid; Phospholipid *N*-methyltransferase; Intracellular calcium; (LLC-PK cell) (Mahfouz, M.M. (1006) 75)

Caldesmon
Tropomyosin; Actomyosin; Platelet; Smooth muscle (Onji, T. (999) 248)

Actin–myosin interaction; Ghost fiber; Polarized fluorescence (Nowak, E. (999) 289)

Calmodulin
Calcium ion influx; Calmodulin antagonist; (Sea urchin sperm) (Guerrero, A. (980) 109)

Compound 48/80; Calcium pump; Sodium/potassium pump; ATPase, Mg^{2+}- (Di Julio, D. (981) 337)

Mitogenesis; Hormone receptor; Calcium ion; Calcium ionophore; Ionomycin; Lymphocyte activation (Jy, W. (983) 153)

Alkaline phosphatase; Calcium ionophore; Calcium metabolism; 1,25-Dihydroxyvitamin D-3; (Rat organs) (Komoda, T. (990) 165)

ATPase, Ca^{2+}-; Calcium ion pump; Compound 48/80; EGTA; Erythrocyte; (Human) (Rossi, J.P.F.C. (996) 153)

Phosphodiesterase; Amphiphile; Surfactant (Isomaa, B. (998) 131)

Protein phosphatase; cDNA cloning; Amino acid sequence; Nucleotide sequence; (Rabbit brain) (Da Cruz e Silva, E.F. (1009) 293)

Recombinant interleukin 1α; Procollagenase; W-7; Human cervix; (Fibroblast) (Ojima, Y. (1011) 61)

ESR; Calcium binding; Calcium analog; Fourier transform infrared; (Rat testis) (Rainteau, D. (1011) 81)

Myoblast; 1,25-Dihydroxyvitamin D-3; DNA synthesis; Cell proliferation; (Chick embryo muscle cell) (Drittanti, L. (1014) 112)

Calmodulin antagonist
Calcium ion influx; Calmodulin; (Sea urchin sperm) (Guerrero, A. (980) 109)

Sulfonamide derivative; Membrane permeability; ATP, external; (CHO cell) (Kitagawa, T. (987) 235)

Calmodulin binding protein
Brush-border membrane; Calcium binding; Calcium ion transport (Bikle, D. (1010) 122)

Calorimetry
Lipid phase diagram; Interdigitated phase; Phosphatidylcholine; Cerebroside; Sulfatide (Gardam, M. (980) 319)

Calpain
Lipid–protein interaction; Phosphatidylserine; Lipid asymmetry; Diamide; Cytoskeleton; (Human platelet) (Comfurius, P. (983) 212)

Calpastatin; Calcium ion dependence; Proteinase; (Chicken muscle) (Wolfe, F.H. (998) 236)

Calpastatin; Phospholipid; Biologic membrane; Membrane binding; Calcium dependent proteolysis (Mellgren, R.L. (999) 71)

Calpastatin
Calpain; Calcium ion dependence; Proteinase; (Chicken muscle) (Wolfe, F.H. (998) 236)

Phospholipid; Biologic membrane; Membrane binding; Calpain; Calcium dependent proteolysis (Mellgren, R.L. (999) 71)

Calregulin homology
Calcium binding protein; Sarcoplasmic reticulum; Endoplasmic reticulum (Fliegel, L. (982) 1)

Cam kinase II
Neurofilament; Phosphorylation; Protein kinase; Protein kinase, cyclic AMP dependent; (Spinal cord) (Caputo, C.B. (1012) 299)

Campbell mutation
Apical membrane; *p*-Aminohippurate carrier; Alkaline phosphatase; Phase state; Lipid bilayer; (Rat) (Bresler, V.M. (982) 288)

Canalicular membrane vesicle
Organic anion binding; Rose bengal; Fluorescence probe; Sinusoidal membrane vesicle; (Rat liver) (Yachi, K. (978) 1)

Cancer
Dimethylhydrazine; N^1-Acetylspermidine; Spermidine N^1-acetyltransferase; Difluoromethylornithine; (Rat colon) (Halline, A.G. (992) 106)

Cystatin; Stefin; Cysteine proteinase; (Human liver); (Human sarcoma) (Lah, T.T. (993) 63)

Cannabinoid orientation
Solid state NMR; NMR, ^2H-; (−)-Δ^9-Tetrahydrocannabinol; Model membrane; Drug–membrane interaction (Makriyannis, A. (986) 141)

Carbachol
Inositol polyphosphate; Cholinergic stimulation; Ion transport; (Human sweat duct cell) (Doughney, C. (1010) 352)

Carbamoylcholine
Inositol polyphosphate; Cardiac myocyte; (Rat) (Berg, I. (1010) 100)

Carbamoylpiperidinoalkane
Epinephrine-induced aggregation; ADP-effected aggregation; Platelet aggregation inhibitor; *N*-Alkylnipecotoylpiperazine; Structure–activity relationship; (Human blood) (Petrusewicz, J. (983) 161)

N-Alkylnipecotoylpiperazine; Platelet aggregation inhibitor; Serotonin release inhibitor; Platelet factor 4 release inhibitor; Structure-activity relationship; Dense body; α-Granule; Platelet plasma membrane (Dillingham, E.O. (990) 128)

Carbohydrate breakdown
Exo-α-D-mannosidase; (*Cellulomonas*) (Takegawa, K. (991) 431)

Carbohydrate composition
Plasminogen activator; Recombinant tissue type plasminogen activator; Vascular plasminogen activator; Kinetics; Amino acid sequence; (Human) (Hamaguchi, M. (1009) 143)

Carbohydrate content
Pancreatic stone protein; Pancreatic calculi; Amino acid sequence; Amino terminal 5-oxoproline; *O*-Glycosyl bond cleavage; (Human) (De Caro, A.M. (994) 281)

Carbohydrate structure
Oligosaccharide, neutral; Galactosyllactose; NMR, ^{13}C-; (Ovine colostrum) (Urashima, T. (992) 375)

Carbohydrate structure
Isoelectric point; Sialic acid; Transferrin; (Human) (Petrén, S. (994) 161)

Carbon assimilation
Chlorophyll fluorescence; Photosynthesis, C_4; (*Zea*); (*Amaranthus*); (Leaf) (Doncaster, H.D. (973) 176)

Photosynthetic electron transport; Chlorophyll fluorescence; Light intensity; (Spinach); (Barley) (Stitt, M. (973) 241)

Chlorophyll fluorescence; Electron transport; Fluorescence quenching; Photosystem II; Quantum yield (Genty, B. (990) 87)

Carbonic anhydrase
Urease; Gas-sensing electrode; Synergism; Urea production (Botré, C. (997) 111)

Refolding; Renaturation; Denaturation; Cobalt; Apoenzyme (Bergenhem, N. (998) 277)

Carbon/nitrogen balance
Bacterial photosynthesis; Nitrogen fixation; Nitrogenase regulation; (*Rb. capsulatus*) (Moreno-Vivián, C. (977) 297)

Carbon tetrachloride
NMR, ^{31}P-; Hepatotoxicity; Bromotrichloromethane; Halocarbon; Hepatotoxin (Towner, R.A. (993) 92)

Pulmonary surfactant synthesis; Phosphatidylcholine; Alveolar type II cell; (Rat) (Ma, J.Y.C. (1003) 136)

Carbonyl reductase
Ketopantoyl-lactone reductase; 2-Dehydropantoyl-lactone reductase; Conjugated polyketone reductase; (*C. parapsilosis*) (Hata, H. (990) 175)

Carboxyl ester lipase
Lipase; Colipase; Arachidonic acid; Linoleic acid (Chen, Q. (1004) 372)

Cholesterol esterase; Bile salt stimulated lipase; Enzyme purification (Camulli, E.D. (1005) 177)

Carboxypeptidase
Epidermal carboxypeptidase; Substrate specificity; Peptide hydrolysis; (Rat); (Epidermal cell) (Kikuchi, M. (991) 19)

Carcinogenesis
Transport protein; mRNA transport factor; RNA transport factor; Oncofetal transport factor; (Rat liver nuclei) (Schumm, D.E. (1009) 54)

Carcinoma
Metalloproteinase; Enzyme purification; Mammary carcinoma; (Rat) (Nethery, A. (993) 42)

Cardiac bioenergetics
Mitochondrion; (Antarctic); (Icefish heart) (Feller, G. (977) 233)

Cardiac function
Glucose oxidation; Diabetes; Heart; Fatty acid; Carnitine acyltransferase (Wall, S.R. (1006) 97)

Cardiac glycoside
Ouabain-like factor, endogenous; Vanadate; Unsaturated fatty acid; ATPase, Na^+/K^+- (Hansen, O. (986) 130)

Cardiac hypertrophy
Carnitine transport; Fatty acid oxidation; [^{14}C]Carbon dioxide production; Carnitine–acylcarnitine translocase; (Rat heart) (El Alaoui-Talibi, Z. (1003) 109)

Cardiac microsome
Free radical formation; Mitomycin C; Antitumor drug; (Perfused rat heart) (Politi, P.M. (992) 341)

Cardiac muscle
Tolbutamide; Glibenclamide; Diazoxide; Action potential; Potassium ion channel; ATP sensitive potassium ion channel; (Rat) (Faivre, J.-F. (984) 1)

Sodium ion channel; Toxin; S-DPI 201-106; ATX II; Veratridine (Schreibmayer, W. (986) 172)

Troponin; Tropomyosin; Protein phosphorylation; Calcium ion regulation (Raggi, A. (997) 135)

Cardiac myocyte
Polyunsaturated fatty acid; Fatty acid uptake; Fatty acid oxidation; Desaturation; Chain elongation; (Rat heart) (Hagve, T.-A. (1001) 338)

Carbamoylcholine; Inositol polyphosphate; (Rat) (Berg, I. (1010) 100)

Cardiolipin
Calcium ion transport; Liposome; Mitochondrial lipid; Phosphatidylethanolamine; Arsenazo III (Kester, M.B. (980) 127)

Diphosphatidylglycerol; NMR, ^{31}P-; Non-lamellar phase; Hexagonal H_{II} phase (Sankaram, M.B. (980) 389)

Lipid polymorphism; Non-bilayer; Fluorescence; Hexagonal H_{II} phase (Stubbs, C.D. (986) 89)

DNA polymerase; Phospholipid (Yoshida, S. (1007) 61)

Cardiolipin synthesis
3,4-Dihydroxybutyl 1-phosphonate; Phosphatidylglycerol phosphate; Phosphonate analog; (*B. subtilis*) (Lacombe, C. (1005) 103)

Carnitine
Lymphocyte; Mononuclear phagocyte; Acylcarnitine; (Human) (Cress, A.P. (992) 135)

Acylcarnitine; Ketogenesis; Fatty acid metabolism; (Rat hepatocyte) (Brass, E.P. (1003) 209)

L-Carnitine
Acyl-CoA, long chain; Mitochondrial membrane potential; Mitochondrial calcium (Di Lisa, F. (973) 185)

Palmitoylcarnitine; Membrane fluidity; Spin label; Free fatty acid metabolism; Erythrocyte; (Human) (Kobayashi, A. (986) 83)

L(−)-Carnitine
Crotonobetaine; Dehydratase; Carnitine dehydratase; (*E. coli*) (Jung, H. (1003) 270)

Carnitine–acylcarnitine translocase
Cardiac hypertrophy; Carnitine transport; Fatty acid oxidation; [^{14}C]Carbon dioxide production; (Rat heart) (El Alaoui-Talibi, Z. (1003) 109)

Carnitine acyltransferase
Clofibrate; Periportal zone; Perivenous zone; Metabolic zonation; (Rat hepatocyte) (Tosh, D. (992) 245)

Glucose oxidation; Diabetes; Heart; Fatty acid; Cardiac function (Wall, S.R. (1006) 97)

Carnitine dehydratase
L(−)-Carnitine; Crotonobetaine; Dehydratase; (*E. coli*) (Jung, H. (1003) 270)

Carnitine–deoxycarnitine exchange
Deoxycarnitine; Myopathy; (Rat) (Sartorelli, L. (1006) 15)

Carnitine palmitoyltransferase I
Malonyl-CoA; Ethanol; Acetaldehyde; (Rat hepatocyte) (Guzmán, M. (1002) 405)

Carnitine transport
Cardiac hypertrophy; Fatty acid oxidation; [^{14}C]Carbon dioxide production; Carnitine–acylcarnitine translocase; (Rat heart) (El Alaoui-Talibi, Z. (1003) 109)

L-Carnosine
Lipid peroxidation; Glutathione; Histidine; Dipeptide; (Posterior subcapsular cataract) (Babizhayev, M.A. (1004) 363)

Carotenoid
Photosynthetic bacteria; Reaction center; Single crystal; Triplet state; (*Rb. sphaeroides* 2.4.1) (Taremi, S.S. (973) 86)

Light-harvesting antenna, bacterial; Reaction center II, bacterial; (*R. rubrum*); (*Rb. capsulatus*) (Lozano, R.M. (976) 196)

Borohydride; Reaction center; Triplet energy transfer; (*Rb. sphaeroides*) (Frank, H.A. (976) 222)

Carotenoid bandshift
Reaction center; Cytochrome bc_1 complex; Electron transport; Potentiometry; (*Rb. sphaeroides*) (Drachev, L.A. (973) 189)

Carotenoid band shift
Pigment-protein complex; Reaction center; Light harvesting complex; Reconstitution; (*Rb. sphaeroides*) (Crielaard, W. (973) 205)

Carotid body
Catecholamine secretion; Calcium efflux; Hypoxia; Voltage sensitive calcium channel; (Rat) (Shaw, K. (1013) 42)

Carrier
Urea; Erythrocyte; Channel; Kinetics; Permeability (Yousef, L.W. (984) 281)

Carrier mediated transport
Antibiotic; Cephalexin; Brush-border membrane vesicle; (Human placenta) (Kudo, Y. (978) 313)

Fatty acid metabolism; Membrane fatty acid binding protein; Human hepatoma cell line (Stremmel, W. (1013) 218)

Bilirubin metabolism; Biliary epithelium carcinoma cell line; (Human liver) (Stremmel, W. (1014) 108)

Carrier protein
Transport protein; Enzyme characterization; Reconstitution; Artificial membrane; (Mitochondria) (Krämer, R. (974) 1)

Cartilage
Epiphyseal plate; Mechanical force; Glycosaminoglycan biosynthesis; Protein biosynthesis (Gray, M.L. (991) 415)

Proteoglycan synthesis; Cell–matrix interaction (Urban, J.P.G. (992) 59)

Chondroitin sulfate; Ossification; Glycosaminoglycan (Harab, R.C. (992) 237)

Glycosphingolipid; Ganglioside; Lipid characterization; (Pig cortical bone); (Pig cartilage) (Fukaya, N. (1004) 108)

Cartilage degradation
Interferon γ; Interleukin 1; Proteinase; DNA synthesis; (Human chrondrocyte) (Andrews, H.J. (1012) 128)

Casein
Hypercholesterolemia; Apolipoprotein B turnover; Kinetics; (Rabbit) (Khosla, P. (1002) 157)

κ-Casein
Aspartic proteinase; Milk-clotting enzyme; Substrate specificity; Glycomacropeptide (Drøhse, H.B. (995) 221)

Casein degradation
Mammary explant; Autocrine control; Milking efficiency; (Goat) (Wilde, C.J. (992) 315)

Casein kinase
Protein kinase; Phosphorylation; Nucleus; NIII (Friedrich, T.D. (992) 41)

Substrate specificity; (Maize); (Rat liver) (Dobrowolska, G. (1010) 274)

Casein kinase-2
Initiation factor; Protein phosphorylation; Protein synthesis (Clark, S.J. (1010) 377)

Casein kinase II
Cell growth; Enzyme activity; Nucleolin; (Human fibroblast) (Schneider, H.R. (1014) 98)

Casein micelle structure
Protein (Dalgleish, D.G. (991) 383)

β-Casomorphin
Leucine transport; Epithelium, intestinal; Epithelium, tight; Peptide; (Rat) (Ermisch, A. (982) 79)

Castanospermine
Gonadotroph primary culture; Lutropin biosynthesis; Swainsonine; Oligosaccharide, *N*-linked; (Rat) (Hattori, M.-a. (992) 272)

Castor oil
Chlorophyll *a*; Chlorophyll *b*; Fluorescence anisotropy; Overlapping bands (Van Gurp, M. (973) 405)

Castration
25-Hydroxyvitamin D-3 1α-hydroxylase; Testosterone effect; Isotope dilution-mass spectrometry; (Guinea pig) (Hagenfeldt, Y. (1002) 84)

Cat1
Liposome; Superhyperfine structure; Oxygen concentration; ESR (Chan, H.-C. (1014) 141)

Catalase
Enzyme purification; (*K. pneumoniae*) (Goldberg, I. (991) 330)

Prosthetic group; Ligand binding; (Spinach) (Hirasawa, M. (994) 229)

Fatty acid (Rosen, G. (994) 264)

Catalase effect
Photosystem II; O_2 evolution; H_2O_2 formation; Sucrose effect; (Spinach) (Wydrzynski, T. (973) 23)

Catalase mRNA
Hydrogen peroxide resistance; Antioxidant enzyme; Drug resistance; mRNA stability; (MCF7) (Akman, S.A. (1009) 70)

Catalytic hydrogenation
Photosystem I; Electron transport; Lipid saturation; Thermal stability (Vigh, L. (979) 361)

Catalytic mechanism
Serine proteinase; Enzyme mechanism; Trypsin-like enzyme (Ascenzi, P. (998) 210)

Catalytic selectivity
Alcohol dehydrogenase; Water activity; Protein conformation; (Yeast) (Xu, Z.-F. (998) 251)

Catalytic subunit
Phospholipase A_2; Cation interaction; Crotoxin (Radvanyi, F. (1006) 183)

Catalytic unit
Proton pumping; Oxidant-pulse experiment; Rate/pulse method; Cytochrome-*c* oxidase; Cytochrome-*c* reductase; Myxothiazol; Cyanide; (Rat liver mitochondria) (Moody, A.J. (973) 29)

Cataract
Human lens; γ-Crystallin; Oxidation; Hydrogen peroxide; Photosensitizer; *N*-Formylkynurenine; Superoxide (Andley, U.P. (997) 284)

Cataractogenesis
Posterior subcapsular cataract; Retinitis pigmentosa; Lipid peroxidation; Lens fiber; Membrane damage; Glutathione; (Human) (Babizhayev, M.A. (1004) 124)

Catecholamine
Adrenaline melanin; Dopamine melanin; Melanin-copper complex; Pyrolysis GC-MS; Infrared ESR (Stępień, K.B. (997) 49)

Phosphoinositide; Adipocyte; Adenosine; Oxytocin; Insulin (Lee, H.-M. (1013) 73)

Catecholamine release
Prostaglandin binding; Chromaffin cell; (Borine adrenal) (Karaplis, A.C. (1010) 369)

Catecholamine secretion
Carotid body; Calcium efflux; Hypoxia; Voltage sensitive calcium channel; (Rat) (Shaw, K. (1013) 42)

Catecholamine synthesis
Tyrosine hydroxylase; Cytoplasmic enyzme; Actin, G-; Cytoskeletal element (Morita, K. (993) 21)

Cathepsin D
Cathepsin E; Aspartic proteinase; Cellular localization (Sakai, H. (991) 367)

Cathepsin E
Cathepsin D; Aspartic proteinase; Cellular localization (Sakai, H. (991) 367)

Cation effect
ATPase, Na^+/K^+-; Sodium pump; Kinetics; ATP hydrolysis (Rossi, R.C. (981) 95)

Cation flux
Nicotinic acetylcholine receptor; Acetylcholine receptor; Ethanol; Desensitization; (*Torpedo* electroplax) (Forman, S.A. (987) 95)

Cationic detergent
Liposome fusion; Biotin; Avidin; Chaotropic ion; Fluorescence energy transfer (Keren-Zur, M. (983) 253)

Cationic dye
ATPase, F_1-; Amphiphilic peptide; Inhibitory site (Bullough, D.A. (975) 377)

Cationic peptide
Amphipathic alpha-helical peptide; Fusogen; Membrane fusion; Liposome; Polymyxin B; Hydrophobic moment (Suenaga, M. (981) 143)

Cation interaction
Phospholipase A_2; Catalytic subunit; Crotoxin (Radvanyi, F. (1006) 183)

Cation permeability
Fluid secretion; Paracellular transport; (Rabbit pancreas) (Kuijpers, G.A.J. (984) 63)

Cation selectivity
Potassium ion channel; Divalent cation activation; Voltage activation; Hydrogen ion activation; Pancreatic islet cell (Tabcharani, J.A. (982) 62)

Cation sidedness
ATPase, Na^+/K^+-; Phosphorylation; Liposome (Van der Hijden, H.T.W.M. (983) 142)

Cation transport
Quinine; Sodium ion transport; Potassium ion transport; Calcium ion dependent transport; (Ehrlich cell) (Smith, T.C. (978) 169)

CCAAT displacement protein (CDP)
DNAase I footprinting; Transcriptional regulation (Superti-Furga, G. (1007) 237)

[^{14}C]Carbon dioxide production
Cardiac hypertrophy; Carnitine transport; Fatty acid oxidation; Carnitine–acylcarnitine translocase; (Rat heart) (El Alaoui-Talibi, Z. (1003) 109)

CCK-8
Gastrin; Inositol phosphate; Cholecystokinin; (Gastric parietal cell) (Roche, S. (1014) 313)

CCK-JMV-180
Cholecystokinin peptide; High affinity receptor; Low affinity receptor; Cholecystokinin receptor; (Pancreatic acinus) (Stark, H.A. (1010) 145)

CD4
Glycophorin; Erythrocyte; Membrane–protein interaction; Flow cytometry; Immunoelectron microscopy (Arvinte, T. (981) 51)

Glycophorin; Erythrocyte; Membrane–protein interaction; pH effect; Membrane defect (Arvinte, T. (981) 61)

Ferredoxin; Iron-sulfur cluster; ESR; Protein structure; Urea denaturation; (Spinach) (Ohmori, D. (996) 166)

Ferredoxin; Iron-sulfur cluster; Protein structure; Urea denaturation; (Spinach) (Hasumi, H. (996) 173)

CDP-diacylglycerol
Glycerophosphate acylation; Acyl species; Phosphatidic acid; Phosphatidylglycerol; (Rat liver mitochondria) (Rüstow, B. (1002) 261)

CDP-diacylglycerol synthase
Thiophosphatidic acid; Phosphatidic acid phosphatase (Bonnel, S.I. (1005) 289)

Celiptium
Membrane potential; Drug–lipid interaction; Phosphatidylglycerol (Sautereau, A.M. (978) 276)

Cell–cell recognition
Myogenesis; polyphosphatidylinositol; Differentiation; Lithium ion; Inositol (Hausman, R.E. (1013) 92)

Cell clone
Epithelial cell; Cell heterogeneity; Hormone response; (MDCK cell) (Nakazato, Y. (1014) 57)

Cell concentration
PAF-acether; Polymorphonuclear neutrophil; pH, extracellular; (Human) (Leyravaud, S. (1005) 192)

Cell culture
Metastasis; Glycosaminoglycan; Interaction; Internalization; Receptor (Redini, F. (991) 359)

Neuroblastoma; Neuroblastoma × glioma hybrid; Glioma; Polyphosphoinositide; Inositol cycle (Glanville, N.T. (1004) 169)

LDL; LDL receptor; Lipoprotein metabolism; (Human fibroblast) (Jaakkola, O. (1005) 118)

Cell transformation; 7-β-Hydroxycholesterol; Cytotoxicity; Cholesterol metabolism; (Rat astrocyte) (Kupferberg, A. (1013) 231)

Cell cycle
Ribonucleotide reductase; Thymidine kinase; DNA polymerase; (Mouse mastocytoma) (Schaer, J.-C. (1009) 90)

Retinoic acid; Collagen IV; Tumorigenicity; Cell differentiation; c-*myc* gene; (F9 teratocarcinoma cell) (Schulz, W.A. (1013) 125)

Cell synchronization; Proteinase activity; Thymidine block; (Human cell culture); (Hela cell) (Kozaki, Y. (1014) 120)

Cell damage
Enzyme release; Energy charge; ATP depletion; Metabolic inhibitor; (Human embryonal lung fibroblast) (Kristensen, S.R. (1012) 272)

Cell death
Mercury chloride; Toxicology; Calcium ion; Mitochondrion; (Sea urchin egg) (Walter, P. (1012) 219)

Cell differentiation
Protein kinase C; Enzyme expression; Phorbol ester (Hooper, W.C. (1013) 47)

Retinoic acid; Collagen IV; Cell cycle; Tumorigenicity; c-*myc* gene; (F9 teratocarcinoma cell) (Schulz, W.A. (1013) 125)

Cell division
Phytohemagglutinin; Cholesterogenesis; Inhibition; (Human lymphocyte) (Tabacik, C. (1011) 149)

Cell-free transcription
Adenovirus E1A gene; Footprint analysis; Transcriptional control (Shibata, H. (1007) 184)

Cell-free translation
Protein synthesis; (*S. cerevisiae*) (Mandel, T. (1007) 80)

Transcription system; Yeast invertase (Roitsch, T. (1009) 19)

Cell function
Parenchymal cell; Diadenine nucleotide; (Rat liver) (Busshardt, E. (1010) 151)

Cell growth
cyclic AMP; Calcium ion; Mastocytoma cell; (Mouse) (Lints, T. (1013) 287)

Casein kinase II; Enzyme activity; Nucleolin; (Human fibroblast) (Schneider, H.R. (1014) 98)

Cell heterogeneity
Epithelial cell; Cell clone; Hormone response; (MDCK cell) (Nakazato, Y. (1014) 57)

Cell hybrid
Electrofusion; Membrane receptor transfer; (Human cell); (Rabbit tissue); (Somatic cell hybrid) (Grasso, R.J. (980) 9)

Cell injury
Calcium ion homeostasis; Iron concentration; Lipid peroxidation; Ion transport; (Rat liver mitochondria) (Masini, A. (1014) 133)

Cell killing
Poly(ADP-ribose) metabolism; DNA single-strand break; Hydrogen peroxide; (Chinese hamster ovary cell) (Cantoni, O. (1014) 1)

Cell lysis
Platelet membrane; Detergent; Leakage; Component solubility; Electron microscopy; Aggregation; (Human blood) (Shiao, Y.-J. (980) 56)

Cell–matrix interaction
Cartilage; Proteoglycan synthesis (Urban, J.P.G. (992) 59)

Cell membrane fatty acid
Magnesium deficiency; Fatty acid; Essential fatty acid; Desaturase; (LLC-PK cell) (Mahfouz, M.M. (1006) 70)

Cellobiohydrolase
Cellulase; Monoclonal antibody; Functional domain; Proteolysis; (*T. reesei*) (Mischak, H. (990) 1)

Enzyme purification; Enzyme characterization; (*C. thermophile*) (Ganju, R.K. (993) 266)

Cell permeabilization
Merocyanine; Ultraviolet irradiation; Flow cytometry; Photobleaching; FRAP; (Mouse spleen) (Szabo Jr., G. (979) 365)

Pyruvate dehydrogenase; Calcium ion; (Rat heart mitochondria) (Rutter, G.A. (1014) 263)

Cell pH
Amiloride; Sodium ion–proton exchanger; Choroid plexus; Cerebrospinal fluid; Sodium-22 uptake (Murphy, V.A. (979) 187)

Cell photosensitization
Anthracycline; Iminodaunomycin; Photoactivation; Laser (Andreoni, A. (1014) 8)

Cell proliferation
Proto-oncogene expression; c-*erbA*; Glucocorticoid; (Human lymphoid cell) (Maroder, M. (1009) 188)

Growth related proteolysis; Proteinase inhibition; (Human fibroblast) (Scott, G.K. (1010) 160)

Epstein-Barr virus; Transformed B cell; Bone metabolism; Interleukin 1; (Human blood cell) (Hanazawa, S. (1012) 57)

High density lipoprotein; Virus transformed cell; Lymphoblastoid cell; (Human) (Favre, G. (1013) 118)

ras gene product; cyclic AMP metabolism; β-Adrenergic receptor; Gene expression; (Mouse cell) (Davies, S.-A. (1013) 173)

Cholera toxin; Inhibition; Kinetics; (Murine leukemia cell) (Pessina, A. (1013) 206)

Myoblast; 1,25-Dihydroxyvitamin D-3; DNA synthesis; Calmodulin; (Chick embryo muscle cell) (Drittanti, L. (1014) 112)

Antiestrogen; Antiestrogen binding; Cholesterol; (Mouse lymphoid cell line) (Tang, B.L. (1014) 162)

T lymphocyte; Interleukin 2; Phytohemagglutinin; Phosphoinositide turnover; (Human) (Korichneva, I.L. (1014) 173)

Cell shape
Gramicidin S; Melittin; Surfactant; Membrane permeability; Phospholipid release (Katsu, T. (983) 135)

Cell spreading
Macrophage; Protein kinase C; cyclic AMP; Electron microscopy; (Mouse cell line) (Petty, H.R. (1012) 284)

Cell spreading assay
Vitronectin; Serum spreading factor; Heparin binding; Monoclonal antibody; (Human plasma) (Izumi, M. (990) 101)

Cell surface
Proteinase; (Macrophage) (Dean, R.T. (992) 174)

Cell synchronization
Cell cycle; Proteinase activity; Thymidine block; (Human cell culture); (Hela cell) (Kozaki, Y. (1014) 120)

Cell transformation
Microfilament–membrane interaction; (Hamster kidney cell) (Koffer, A. (982) 295)

Cell culture; 7-β-Hydroxycholesterol; Cytotoxicity; Cholesterol metabolism; (Rat astrocyte) (Kupferberg, A. (1013) 231)

Cellular compartmentation
Phosphatidylcholine biosynthesis; Electropermeabilization; Choline uptake; Hemicholinium-3; Rat glioma (George, T.P. (1004) 283)

Cellular localization
Cathepsin E; Cathepsin D; Aspartic proteinase (Sakai, H. (991) 367)

Cellular membrane phospholipid
Magnesium deficiency; Phospholipid *N*-methyltransferase; Calcium uptake; Intracellular calcium; (LLC-PK cell) (Mahfouz, M.M. (1006) 75)

Cellular retinol binding protein
Retinol; Squamous cell carcinoma; (Human) (Wahlberg, P. (1010) 287)

Cellular senescence
Oligosaccharide; Binding affinity; NMR (Busse, S.C. (984) 183)

Cellulase
Cellobiohydrolase; Monoclonal antibody; Functional domain; Proteolysis; (*T. reesei*) (Mischak, H. (990) 1)

Exocellobiohydrolase; Lactose; Polyclonal antibody; (*T. emersonii*) (Hackett, T.J. (991) 248)

Cellulolytic enzyme; (*C. thermocellum*) (Halliwell, G. (992) 223)

Cellulolytic enzyme
Cellulase; (*C. thermocellum*) (Halliwell, G. (992) 223)

Cell volume
Actin, F-; Potassium induced swelling; Potassium ion flux; Lithium ion transport (Kleinzeller, A. (1014) 40)

Cell wall synthesis
Calcium antagonist; Auxin; Xyloglucan glycosyltransferase; (Pea) (Brummell, D.A. (1014) 298)

Cementum
Enamelin; Amelogenin; Immunoblotting; Amino acid composition; (Mouse cementum); (Human cementum) (Slavkin, H.C. (991) 12)

Cephalexin
Antibiotic; Brush-border membrane vesicle; Carrier mediated transport; (Human placenta) (Kudo, Y. (978) 313)

Ceramide
Sphingomyelin; Glucoceramide; Hep G_2 cell; Peritoneal macrophage; J774 macrophage; (Rat liver) (Stein, O. (1003) 175)

c-*erbA*
Proto-oncogene expression; Cell proliferation; Glucocorticoid; (Human lymphoid cell) (Maroder, M. (1009) 188)

Cereal
α-Amylase inhibitor; Endochitinase; Protein, PR; Crop protection (Ary, M.B. (999) 260)

Cerebellum
Phosphatidylinositol; Phosphatidylinositol transfer protein; Phosphatidylinositol synthesis; (Rat brain) (Nyquist, D.A. (987) 165)

Cerebroside
Lipid phase diagram; Interdigitated phase; Phosphatidylcholine; Sulfatide; Calorimetry (Gardam, M. (980) 319)

Fruiting inducing activity; Structure–activity relationship; (*L. edodes*) (Kawai, G. (1001) 185)

Cerebroside sulfate
X-ray diffraction; Lipid bilayer; Interdigitation; Phase behavior (Stinson, R.H. (986) 234)

Lignoceric acid; Phase transition; NMR, ^{2}H- (Jeffrey, K.R. (986) 241)

Bradykinin; Phosphatidylinositol; Peptide–lipid interaction; Fluorescence (Rao, A.G.A. (997) 278)

Cerebrospinal fluid
Amiloride; Sodium ion–proton exchanger; Choroid plexus; Sodium-22 uptake; Cell pH (Murphy, V.A. (979) 187)

Ceroid lipofuscinosis
Batten's disease; Dolichyl phosphate; Dolichyl pyrophosphoryl oligosaccharide; Lysosome; (Sheep) (Hall, N.A. (993) 245)

C1 esterase
Acrosin; Substrate specificity; *p*-Nitrate (Skoog, M.T. (996) 89)

CF_1
Sulfite; ATPase activation; Thylakoid; (Kinetics) (Larson, E.M. (973) 67)

Thylakoid; Chloroplast ATPase; Sulfite; Activation; Bound ADP (Larson, E.M. (973) 78)

Chloroplast ATPase, H^+-; Photophosphorylation; Pyridoxalphosphate inhibition; ATPase, H^+-; Subunit labeling; ([^{3}H]PLP) (Bickel-Sandkötter, S. (974) 30)

CF_0/CF_1
ATP synthesis; Lipid packing; Membrane fluidity; Monogalactosyldiacylglycerol; Transmembrane distribution (Rawyler, A. (975) 283)

c-*fos*
cyclic AMP; Mastocytoma; c-*myc*; Gene expression; Differentiation; (Mouse cell) (Goulding, M.D. (1007) 99)

C6 glioma cell
Electropermeabilization; Plasma membrane; cyclic AMP; β-Adrenergic receptor; GTP (Volker, T.T. (984) 243)

CGRP-I
Calcitonin; Alternative splicing; mRNA; Gene expression; (Human) (Bovenberg, R.A.L. (1008) 223)

Chain elongation
Polyunsaturated fatty acid; Fatty acid uptake; Fatty acid oxidation; Desaturation; Cardiac myocyte; (Rat heart) (Hagve, T.-A. (1001) 338)

Chain terminator
DNA polymerase; Nucleotide analog; Sugar moiety; DNA synthesis inhibition; (*S. acidocaldarius*); (Archaebacterium) (Chinchaladze, D.Z. (1008) 113)

Channel
Urea; Erythrocyte; Carrier; Kinetics; Permeability (Yousef, L.W. (984) 281)

Channel block
Gramicidin A; Open channel noise; Sodium ion transport; Proton transport (Heinemann, S.H. (987) 8)

Channel conformation
Acetylcholine receptor; Model membrane; Noncompetitive blocker (Furois-Corbin, S. (984) 339)

Channel degradation
Patch clamp; Potassium ion channel; Multiple conductance state; (Molluscan glial cell) (Geletyuk, V.I. (981) 343)

Channel inactivation
Cholesterol; Gramicidin A; Lipid bilayer; (Erythrocyte) (Schagina, L.V. (978) 145)

Channel selectivity
SITS; Membrane potential; Chloride channel; Single-channel conductance; (*Drosophila*) (Yamamoto, D. (986) 187)

Chaotropic agent
Photosystem I; Reaction center; Core protein; P-700; Iron-sulfur center; (*Synechococcus* PCC 6301); (*A. nidulans*) (Parrett, K.G. (973) 324)

Chaotropic anion
Fructose-1,6-bisphosphatase; Woodward's reagent K; Diethyl pyrocarbonate; Thioredoxin; Organic solvent (Prat-Gay, G. (973) 457)

Chaotropic ion
Liposome fusion; Cationic detergent; Biotin; Avidin; Fluorescence energy transfer (Keren-Zur, M. (983) 253)

Characterization
β-Galactoside binding lectin; Hepatic lectin; Lectin (Ali, N. (992) 30)

Charged group
Porin; PhoE; Hybrid protein; Ion selectivity; Lipid bilayer; (*E. coli* K-12 membrane) (Benz, R. (981) 8)

Charge distribution
PhoE, export; Signal sequence; (*E. coli*) (Bosch, D. (979) 69)

Charge recombination
ESR Signal II_s; Manganese multiline; g tensor (= 4.1); Activation energy; (Spinach) (Inui, T. (973) 147)

Bacterial photosynthesis; Reaction center; pH dependence; Protonation; (*Rps. viridis*) (Sebban, P. (974) 54)

Charge separation
Photosynthesis; Photosystem II; Reaction center; Cytochrome *b*-559; (*Synechocystis* 6803) (Gounaris, K. (973) 296)

Superexchange mechanism; Reaction center; Photosynthesis; Quantum mechanics; Franck-Condon factor (Bixon, M. (977) 273)

Charge separation (Bacterium)
Electron transfer dynamics; Photosynthesis; Reaction center (Friesner, R.A. (977) 99)

Charybdotoxin
Calcium ion activated potassium ion channel; Potassium ion channel; Anesthetic; Volatile anesthetic; Glioma cell; Calcium ionophore (Tas, P.W.L. (983) 264)

Inhibition; Potassium ion efflux; Calcium activated potassium efflux; Sickling-unsickling cycle; (Human sickle red blood cell) (Ohnishi, S.T. (1010) 199)

Chelation
Sodium–sodium ion exchange; Calcium–sodium ion exchange; Calcium ion, intracellular; (Squid axon) (DiPolo, R. (978) 328)

Chemical crosslinking
HDL conversion; Lecithin:cholesterol acyltransferase; Particle size profile; Lipoprotein metabolism; (Human plasma) (Nichols, A.V. (1001) 325)

Formaldehyde; Glucocorticoid receptor; (HeLa cells) (Rossini, G.P. (1011) 183)

Chemically modified electrode
Reaction center; Electron transfer; Photoelectrochemical cell (Katz, E.Y. (976) 121)

Chemical modification
ATPase, F_1-; Beta subunit; 2-Azido-ATP; Single site catalysis; (*E. coli*) (Bragg, P.D. (974) 24)

Cytochrome *f*; Plastocyanin; Electron transport (Adam, Z. (975) 158)

Glutamate dehydrogenase; Lysine residue; Diethyl pyrocarbonate; (*C. pyrenoidosa*) (Shatilov, V.R. (994) 222)

Aprotinin derivative; Peptide bond; Reactive site (Mehlich, A. (996) 23)

Acetyl-CoA hydrolase; Acetyl-CoA; Sulfhydryl group; (Rat liver) (Nakanishi, Y. (996) 209)

Cytochrome $P\text{-}450_{SCC}$; Lysine; Succinic anhydride (Adamovich, T.B. (996) 247)

Creatine kinase; Sulfhydryl group, essential; Mercurial (Wu, H. (997) 78)

Arginine residue; Glyceraldehyde-3-phosphate dehydrogenase (Asryants, R.A. (997) 159)

L-Asparaginase; Histidine; Tyrosine; NMR, ^{1}H-; (*E. coli*) (Bagert, U. (999) 36)

Bile salt stimulated lipase; Enzyme inhibition; (Human skim milk) (Abouakil, N. (1002) 225)

Chemical synthesis
7-*cis*-11-*trans*-Lipoxin A_4; Stereochemistry; Biological activity (Nicolaou, K.C. (1003) 44)

Chemiluminescence
Electron transport; Photosynthesis; Thermoluminescence; Chloroplast preparation (Rózsa, Z. (973) 350)

Schiff base oxidation; Phenylacetaldehyde; Neutrophil; Myeloperoxidase (Nascimento, A.L.T.O. (991) 50)

Superoxide dismutase; Cytochrome *c*; Luminol; Xanthine oxidase (Radi, R.A. (994) 89)

Hydrophobicity; Surface hydrophobicity; (Human polymorphonuclear leukocytes); (*E. coli*) (Steadman, R. (1013) 21)

Chemostat
Non-equilibrium thermodynamics; Thermodynamic efficiency; Growth yield; Growth model; (*P. oxalaticus* OX1) (Rutgers, M. (973) 302)

Thermodynamics, non-equilibrium; Growth model; Microbial growth; (*K. aerogenes*) (Rutgers, M. (977) 142)

Chenodeoxycholic acid
Hydroxysteroid dehydrogenase; Bile acid transformation; Ursodeoxycholic acid; (*Clostridium* sp.) (Edenharder, R. (1002) 37)

Chiral phase HPLC
Fatty acid metabolism; GC-MS; Lipoxygenase; Prostasome; (Male fertility); (Human) (Oliw, E.H. (1002) 283)

Chitin synthetase
Sedimentation property; Chitosome; Isopycnic sedimentation; (*N. crassa*) (Martínez, J.P. (990) 45)

Chitosome
Chitin synthetase; Sedimentation property; Isopycnic sedimentation; (*N. crassa*) (Martínez, J.P. (990) 45)

Chloride–bicarbonate exchange
A10 cell line; Chloride radiolabel; (Vascular smooth muscle) (Korbmacher, C. (985) 67)

Chloride channel
Channel selectivity; SITS; Membrane potential; Single-channel conductance; (*Drosophila*) (Yamamoto, D. (986) 187)

Chloride channel blocker
Potassium ion secretory epithelium; Ionic conductance; Micro-Ussing chamber; (Inner ear) (Marcus, D.C. (987) 56)

Chloride conductance
Conductance inhibitor; Jejunum; Brush-border vesicle; (Pig) (Forsyth, G.W. (977) 19)

Membrane potential; Ion exchanger; Sodium chloride symport; (*R. pipiens* stomach) (Holloman, T.L. (980) 367)

Monoclonal antibody; ATPase, H^+/K^+- (Benkouka, F. (987) 205)

Chloride dependence
Glycine transporter; Sodium ion dependence; Glycoprotein; Proteoliposome; (Rat) (Lopez-Corcuera, B. (983) 247)

Chloride distribution
Liver cell; Membrane potential (Nobes, C.D. (987) 115)

Chloride ion
Glycine transport; Glial cell; Plasma membrane vesicle (Zafra, F. (979) 147)

Chloride ion activity
Bacteriorhodopsin; Hill plot; Harned's rule; Blue acidic form; Purple acidic form (Drachev, A.L. (976) 190)

Chloride radiolabel
A10 cell line; Chloride–bicarbonate exchange; (Vascular smooth muscle) (Korbmacher, C. (985) 67)

Chloride transport
Potassium electrode; (Human red blood cell); (MDCK cell) (Rothstein, A. (987) 239)

1-Chloro-2,4-dinitrobenzene
Glutathione *S*-transferase; Site directed inactivation; (Human) (Corrigall, A.V. (991) 399)

***p*-Chloromercuribenzenesulfonate**
Erythrocyte; Passive cation transport; Permeability, sodium/potassium ion; Ferricyanide; Iodoacetate; Ionophore A23187; (Human) (Fuhrmann, G.F. (983) 179)

Chloroperoxidase
Chlorophyll *a*; Enzymic chlorination; Chlorophyll chlorination (Senge, M. (977) 177)

Chlorophyll
Fourier transform infrared spectroscopy; Resonance Raman; Pheophorbide (Andersson, L.A. (974) 163)

Fluorescence quenching; Quantum yield; Non-photochemical quenching; Photosynthesis; (Barley) (Quick, W.P. (977) 287)

Chlorophyll *a*
Chlorophyll *b*; Fluorescence anisotropy; Overlapping bands; Castor oil (Van Gurp, M. (973) 405)

Resonance Raman; Hydrogen bonding; Intermolecular interaction; Spectroscopy; Photosynthesis (Krawczyk, S. (976) 140)

Chloroperoxidase; Enzymic chlorination; Chlorophyll chlorination (Senge, M. (977) 177)

Chlorophyll *ab* antenna
Photosystem II; CP29 (Camm, E.L. (974) 180)

Chlorophyll *a/b* complex
Chlorophyll *b*; Circular dichroism; Prochlorophyte; (*P. hollandica*) (Matthijs, H.C.P. (975) 185)

Chlorophyll *a/b* ratio
Chlorophyll determination; Correction factor; Arnon equation; Magnesium atomic absorption spectroscopy (Porra, R.J. (975) 384)

Chlorophyll *b*
Chlorophyll *a*; Fluorescence anisotropy; Overlapping bands; Castor oil (Van Gurp, M. (973) 405)

Chlorophyll *a/b* complex; Circular dichroism; Prochlorophyte; (*P. hollandica*) (Matthijs, H.C.P. (975) 185)

Chlorophyll binding protein
Photosystem II; Reaction Center; ESR; Raman spectroscopy (Ghanotakis, D.F. (974) 44)

Chlorophyll biosynthesis
5-Aminolevulinate dehydratase; C_5 pathway; 4,5-Dioxovalerate; Protochlorophyllide; (*Scenedesmus*) (Kotzabasis, K. (977) 309)

Chlorophyll *c*
Fucoxanthin-chlorophyll *a/c* protein; Supramolecular assembly; Decyl sucrose; Light-harvesting pigment; Energy transfer; (Brown alga); (*D. dichotoma*) (Katoh, T. (976) 233)

Chlorophyll chlorination
Chlorophyll *a*; Chloroperoxidase; Enzymic chlorination (Senge, M. (977) 177)

Chlorophyll determination
Chlorophyll *a/b* ratio; Correction factor; Arnon equation; Magnesium atomic absorption spectroscopy (Porra, R.J. (975) 384)

Chlorophyll fluorescence
Fluorescence quenching; Anthraquinone; Benzoquinone; Naphthoquinone; (Barley chloroplast) (Karukstis, K.K. (973) 124)

Carbon assimilation; Photosynthesis, C_4; (*Zea*); (*Amaranthus*); (Leaf) (Doncaster, H.D. (973) 176)

Photosystem I (Stahl, U. (973) 198)

Photosynthetic electron transport; Carbon assimilation; Light intensity; (Spinach); (Barley) (Stitt, M. (973) 241)

Copper inhibition; Primary photochemistry; Photosystem II reaction center; Electron transport; (Pea chloroplasts) (Renganathan, M. (974) 247)

High energy state; Non-photochemical quenching; Photoinhibition; Relaxation kinetics; State transition (Hodges, M. (974) 289)

Energy transfer; Chlorophyll photobleaching; Photosystem II; Photosynthesis (Jennings, R.C. (975) 29)

Fluorescence induction; Photosystem II; DCMU (Hsu, B.-D. (975) 44)

Carbon assimilation; Electron transport; Fluorescence quenching; Photosystem II; Quantum yield (Genty, B. (990) 87)

Chlorophyll photobleaching
Energy transfer; Chlorophyll fluorescence; Photosystem II; Photosynthesis (Jennings, R.C. (975) 29)

Chlorophyll protein
Absorption spectroscopy; Chloroplast; Electron microscopy; Fluorescence emission; Immunocytochemistry; P-700 (Simpson, D.J. (975) 164)

Isoelectric focusing; LHC II heterogeneity; Light harvesting; Photosystem II (Spangfort, M. (977) 163)

Chlorophyll-protein complex
CP29; Ion-exchange HPLC; Light harvesting; Amino acid sequence, partial; Photosystem II; (Spinach) (Henrysson, T. (977) 301)

Chloroplast
ATPase, H^+-; Enzyme regulation; Azide inhibition; Enzyme kinetics (Minkov, I.B. (973) 7)

LHC II; Fluorescence; Phosphorylation; Protein kinase; Photosystem II; (Spinach leaf) (Islam, K. (974) 261)

ATP-γ-S; Fluorescence; Thylakoid; Phosphorylation; Photosystem II; (Spinach leaf) (Islam, K. (974) 267)

Cytochrome *bf* complex; Proton/electron ratio; Proton translocation; (Pea) (Hope, A.B. (975) 96)

Absorption spectroscopy; Chlorophyll protein; Electron microscopy; Fluorescence emission; Immunocytochemistry; P-700 (Simpson, D.J. (975) 164)

Electron transport; Calcium channel blocker; Oxygen evolving system (Semin, B.K. (975) 239)

ATPase; Thiol activation; Electrochromism; Leaf (Kramer, D.M. (976) 28)

ATPase, H^+-; Thiol modulation; Proton gradient; Enzyme regulation; 9-Aminoacridine (Lohse, D. (976) 85)

ATPase, H^+-; Enzyme activation; Photophosphorylation; Nucleotide binding (Lohse, D. (976) 94)

Oxygen evolution; S state; Hydroxylamine; Greening (Franck, F. (977) 215)

Alga; Glycerol-3-phosphate dehydrogenase; Redox balance; Starch degradation (Klöck, G. (991) 347)

Mitochondrion; Sulfolipid biosynthesis; Sulfite; *S*-Sulfocysteine; Cysteine sulfinic acid; (*Euglena*) (Saidha, T. (1001) 268)

Cyanobacterium; Protein characterization; DNA-binding protein; (*Synechococcus*); (*A. quadruplicatum*) (Crevel, G. (1007) 36)

Chloroplast ATPase
CF_1; Thylakoid; Sulfite; Activation; Bound ADP (Larson, E.M. (973) 78)

Chloroplast ATPase, H^+-
Photophosphorylation; Pyridoxalphosphate inhibition; CF_1; ATPase, H^+-; Subunit labeling; ([^{3}H]PLP) (Bickel-Sandkötter, S. (974) 30)

Chloroplast coupling factor 1
δ-Subunit deficient chloroplast coupling factor; Thylakoid; Chloroplast coupling factor binding; ATP synthesis (Xiao, J. (976) 203)

Chloroplast coupling factor binding
Chloroplast coupling factor 1; δ-Subunit deficient chloroplast coupling factor; Thylakoid; ATP synthesis (Xiao, J. (976) 203)

Chloroplast development
Photosynthesis; Etiolated cell; Photosystem I; Fluorescence decay; Photon counting; (*C. reinhardtii*) (Chan, C.K. (975) 59)

Chloroplast preparation
Chemiluminescence; Electron transport; Photosynthesis; Thermoluminescence (Rózsa, Z. (973) 350)

Chloroquine
Protonophore; Antimalarial drug; Alkylamine; (*E. coli*) (Nissani, E. (978) 293)

Immunoliposome; In vivo model; Drug targeting; Parasitized mouse red blood cell; (Rat) (Peeters, P.A.M. (981) 269)

VLDL secretion; Microsomal triacylglycerol; Rat hepatocyte (Francone, O.L. (1002) 28)

Ferritin; Apotransferrin; Iron chelator; (Rat hepatocyte) (Sibille, J.-C. (1010) 204)

Chlorosome isolation
Bacteriochlorophyll; Photosynthesis; Gel electrophoretic filtration; Fluorescence; (*C. aurantiacus*) (Griebenow, K. (973) 235)

Chlorotetrolic acid ester
Alkylating tRNA derivative; Phenylalanyl-tRNA synthetase; Adenine analog; Nucleic acid–protein crosslinking (Roques, P. (1009) 99)

CHO cell mutant
Phosphatidylserine; Phosphatidylethanolamine; Sindbis virus; Membrane fusion; Membrane biogenesis (Kuge, O. (986) 61)

Cholate–phospholipid micelle
Phospholipid vesicle; Phosphatidylcholine; Phosphatidylethanolamine; pH dependence; Vesicle permeability; Cholestyramine (Shi, S.P. (982) 187)

Cholecystokinin
Endopeptidase 24.11; Sulfation; Gastrin; Metabolism (Pauwels, S. (996) 82)

Gastrin; Inositol phosphate; CCK-8; (Gastric parietal cell) (Roche, S. (1014) 313)

Cholecystokinin peptide
High affinity receptor; Low affinity receptor; Cholecystokinin receptor; CCK-JMV-180; (Pancreatic acinus) (Stark, H.A. (1010) 145)

Cholecystokinin receptor
Cholecystokinin peptide; High affinity receptor; Low affinity receptor; CCK-JMV-180; (Pancreatic acinus) (Stark, H.A. (1010) 145)

Gastrin receptor; (Rabbit parietal cell); (Rabbit gastric mucosal cell) (Magous, R. (1010) 357)

Cholera toxin
Cell proliferation; Inhibition; Kinetics; (Murine leukemia cell) (Pessina, A. (1013) 206)

Brush-border membrane; Basal lateral membrane; ADP-ribosylation; GTP binding protein; Adenylate cyclase; (Rabbit intestine) (Longbottom, D. (1014) 289)

Cholestane spin label
Phospholipid; Curvature; Reorientational dynamics; ESR; Lipid vesicle; Hydration (Korstanje, L.J. (982) 196)

Cholestenone
Cholesterol; Phospholipid; Liposome; Membrane; Fluorescent probe; Fluorescence anisotropy (Ben-Yashar, V. (985) 271)

Cholesterogenesis
Phytohemagglutinin; Inhibition; Cell division; (Human lymphocyte) (Tabacik, C. (1011) 149)

Cholesterol
Gramicidin A; Channel inactivation; Lipid bilayer; (Erythrocyte) (Schagina, L.V. (978) 145)

Targeting chemotherapy; Antitumor agent; Adriamycin; Liposome stability; Dipalmitoylphosphatidylcholine (Tomita, T. (978) 185)

Phospholipid; Thermodynamics; Differential scanning calorimetry (Bach, D. (979) 11)

Lipid bilayer; Phase transition; Interface active molecule; Density fluctuation; Heterogeneity; Lateral compressibility (Cruzeiro-Hansson, L. (979) 166)

Anionic polypeptide fraction; Protein binding; (Rat liver) (Martigne, M. (979) 341)

Phase transition; Glycosphingolipid; Freeze-etching; Phospholipid bilayer; Electron microscopy (Rock, P. (979) 347)

Hydrogen bonding; Phosphatidylcholine; Fourier transform infrared spectroscopy (Wong, P.T.T. (980) 37)

Liposome; Intracellular stability; Gamma-ray perturbed angular correlation spectroscopy; PACS; (Kupffer cell) (Roerdink, F.H. (980) 234)

Microenvironment; Bile salt; Phosphatidylcholine; Pyrene; Thiacarbocyanine (Matsuzaki, K. (980) 371)

Liposome stability; Octyl glucoside; Plasma protein (Liu, D. (981) 254)

Phosphatidylcholine vesicle; Glycophorin; ESR (Tampé, R. (982) 41)

Lindane; Insecticide–membrane interaction; Fluorescence polarization; Fluorescence probe; Membrane fluidity (Antunes-Madeira, M.C. (982) 161)

Membrane vesicle; Unilamellar vesicle; Fluorescence polarization; NMR, ^{1}H-; NMR, ^{13}C-; Phospholipid bilayer (Bhakuni, V. (982) 216)

Polyene antibiotic; Amphotericin B; Calcium ion permeability; Liposome; Large unilamellar vesicle; Ergosterol; Arsenazo III (Ramos, H. (982) 303)

DSC; Mixed acid; Phosphatidylcholine, mixed acid; Dienoic lipid; Model membrane (Keough, K.M.W. (983) 51)

Lipid permeability; Membrane fluidity; Microvillus membrane; 7-Dehydrocholesterol; (Rat) (Meddings, J.B. (984) 158)

Prostasome; Phospholipid; Fatty acid; ESR; Spin label; (Human semen) (Arvidson, G. (984) 167)

Glyceroglycolipid; Liposome membrane; ESR (Naito, M. (985) 147)

Cholestenone; Phospholipid; Liposome; Membrane; Fluorescent probe; Fluorescence anisotropy (Ben-Yashar, V. (985) 271)

Acetylcholine receptor; Neurotoxin binding site; Thermal denaturation; Structure–function correlation; Membrane fluidity (Artigues, A. (985) 325)

Phosphatidylcholine; 5-Hydroxyicosatetraenoic acid; 15(*S*)-Hydroxyicosatetraenoic acid; Liposome; Permeability (Isaacson, Y. (986) 295)

Taurocholate; Micelle (Chijiiwa, K. (1001) 111)

Apolipoprotein B; Apolipoprotein secretion; LDL receptor; (Human liver); (Hepatoma cell line) (Fuki, I.V. (1001) 235)

Phospholipid composition; Lindane; (Rat prostate) (Gutierrez-Ocaña, M.T. (1003) 67)

Lipoprotein catabolism; Ileal bypass; LDL receptor; Atherosclerosis; (WHHL rabbit) (Mol, M.J.T.M. (1003) 167)

Cholesteryl ester; Acyl-CoA : cholesterol acyltransferase; Absorption; (Rat) (Williams, R.J. (1003) 213)

Nucleation; (Phospholipid vesicle); (Bile) (Peled, Y. (1003) 246)

Development; Lipid transport; Expression (Levin, M.S. (1003) 293)

Nonspecific lipid transfer protein; Sterol carrier protein 2; Oxysterol derivative; Lipid monolayer (Van Amerongen, A. (1004) 36)

α-Bromopalmitate; Fatty acid; Triacylglycerol; Fatty acid binding protein; (Rat serum) (Hagve, T.-A. (1004) 143)

Dolichol; Dolichyl phosphate; Polyisoprenoid; Aging; (Mouse kidney); (Mouse liver) (Crick, D.C. (1004) 180)

Bile; Liver; Cholesterol transport; Lipoprotein (Robins, S.J. (1004) 327)

Glucagon; Lipoprotein; Apoprotein; Plasma cholesterol; (Rat) (Guettet, C. (1005) 233)

1,6-Diphenyl-1,3,5-hexatriene; Frequency domain fluorometry; Lifetime distribution; Microheterogeneity (Fiorini, R. (1006) 198)

Fc receptor; Monoclonal antibody; LDL; (U937 cell) (Bigler, R.D. (1011) 102)

Antiestrogen; Antiestrogen binding; Cell proliferation; (Mouse lymphoid cell line) (Tang, B.L. (1014) 162)

Cholesterol analog
Phospholipid vesicle; Dehydroergosterol; Fluorescence (Bar, L.K. (983) 109)

Cholesterol concentration
Bile acid synthesis; Dietary cholesterol; (Rat); (Hepatocyte) (Sutton, C.M. (1001) 210)

Cholesterol esterase
Fluorescein dilaurate; Tetrameric enzyme molecule; Nitrophenyl ester; Rhodamine 6G; (Human pancreas) (Meyer, J.G. (1002) 89)

Bile salt stimulated lipase; carboxylester lipase; Enzyme purification (Camulli, E.D. (1005) 177)

cDNA (Kissel, J.A. (1006) 227)

Cholesterol esterification
Sphingomyelin; Sphingomyelinase; Cholesterol oxidase; Cholesterol transport; Cholesterol oxidation; (Human fibroblast) (Slotte, J.P. (985) 90)

Butylated hydroxytoluene; Probucol; Linoleic acid; Peroxidation; Cholesterol secretion (Stein, O. (1003) 115)

LDL; HDL; Cholesterol transfer; (Human adipocyte) (Fong, B.S. (1004) 53)

Simvastatin; Acyl-CoA:cholesterol acyltransferase; MHG-CoA reductase inhibitor; (Rabbit) (Ishida, F. (1004) 117)

Niemann-Pick type C fibroblast; Intracellular transport; Cholesterol oxidase; Sphingomyelinase; LDL (Slotte, J.P. (1005) 303)

J774 macrophage; LDL; Acyl-CoA : cholesterol acyltransferase (Khoo, J.C. (1012) 215)

Cholesterol ester transfer reaction
Lecithin–cholesterol acyltransferase; High density lipoprotein; Lipoprotein lipase; (Human plasma) (Simard, G. (1005) 245)

Cholesterol gallstone
Gallstone; HMG-CoA reductase; Lithogenic index; Enzyme inhibition; Hyperlipidemia; (Hamster) (Koide, K. (1005) 65)

Cholesterol homeostasis
Endocytosis; LDL (Sainte-Marie, J. (982) 265)

Cholesterol metabolism
Triacylglycerol metabolism; Lipoprotein lipase; VLDL; (Diabetic rabbit) (Minnich, A. (1002) 324)

Sterol binding; Hepatic enzyme; (Rat liver microsome) (Suckling, K.E. (1002) 401)

Bile acid; Biliary secretion; LDL; HDL; (Rat liver) (Bravo, E. (1003) 315)

Cell culture; Cell transformation; 7-β-Hydroxycholesterol; Cytotoxicity; (Rat astrocyte) (Kupferberg, A. (1013) 231)

Cholesterol nucleation
Phospholipase; Bile; Gallstone disease; (Human) (Groen, A.K. (1006) 179)

Cholesterol oxidase
Sphingomyelin; Sphingomyelinase; Cholesterol transport; Cholesterol esterification; Cholesterol oxidation; (Human fibroblast) (Slotte, J.P. (985) 90)

Bile salt; Electrochemistry; Enzyme activity (Cheillan, F. (999) 233)

Niemann-Pick type C fibroblast; Intracellular transport; Sphingomyelinase; LDL; Cholesterol esterification (Slotte, J.P. (1005) 303)

Cholesterol oxidation
Sphingomyelin; Sphingomyelinase; Cholesterol oxidase; Cholesterol transport; Cholesterol esterification; (Human fibroblast) (Slotte, J.P. (985) 90)

Cholesterol precursor precursor
Cholesterol synthesis; Brain nerve tissue; Myelinogenesis; (Mouse); (Rat) (Bourre, J.M. (1004) 387)

Cholesterol secretion
Butylated hydroxytoluene; Probucol; Linoleic acid; Peroxidation; Cholesterol esterification (Stein, O. (1003) 115)

Cholesterol synthesis
Cholesterol precursor precursor; Brain nerve tissue; Myelinogenesis; (Mouse); (Rat) (Bourre, J.M. (1004) 387)

Bile acid synthesis; Lipoprotein; (Rabbit hepatocyte culture) (Whiting, M.J. (1005) 137)

Cholesterol transfer
LDL; HDL; Cholesterol esterification; (Human adipocyte) (Fong, B.S. (1004) 53)

Cholesterol transport
Sphingomyelin; Sphingomyelinase; Cholesterol oxidase; Cholesterol esterification; Cholesterol oxidation; (Human fibroblast) (Slotte, J.P. (985) 90)

Cholesterol; Bile; Liver; Lipoprotein (Robins, S.J. (1004) 327)

Cholesteryl ester
Luteinizing hormone/human chorionic gonadotropin receptor; NMR, ^{1}H-; Membrane fluidity (Kolena, J. (979) 279)

HDL; Selective uptake; Murine adrenocortical cell; Plasma membrane; Cholesteryl ether (Knecht, T.P. (1002) 365)

Cholesterol; Acyl-CoA : cholesterol acyltransferase; Absorption; (Rat) (Williams, R.J. (1003) 213)

Fatty acid uptake; High density lipoprotein; Polyunsaturated fatty acid; (Rat hepatocyte) (Pepin, D. (1006) 52)

Serum amyloid A; Lecithin–cholesterol acyltransferase; HDL metabolism; (Human plasma) (Steinmetz, A. (1006) 173)

Cholesteryl ester transfer protein
Lipid transfer protein; HDL; Apolipoprotein A-I; Apolipoprotein E; Apolipoprotein A-IV; (Rat) (Groener, J.E.M. (1002) 93)

Cholesteryl ester transfer reaction
Hepatic lipase; Triacylglycerol lipase; HDL; Lipoprotein lipase; (Human) (Simard, G. (1001) 225)

Cholesteryl ether
HDL; Cholesteryl ester; Selective uptake; Murine adrenocortical cell; Plasma membrane (Knecht, T.P. (1002) 365)

Cholesteryl linoleyl ether
Hypercholesterolemia; Phospholipid; (Syrian hamster) (Stein, O. (1006) 144)

Cholesteryl oleate
Lipolysis; Chylomicron-like emulsion; Triolein; (Rat) (Mortimer, B.C. (1002) 359)

Cholesteryl oleyl ether
Acid cholesteryl ester hydrolase; Neutral cholesteryl ester hydrolase; Esterastin; (Aortic smooth muscle cell) (Morin, R.J. (1004) 139)

Cholestyramine
Phospholipid vesicle; Phosphatidylcholine; Phosphatidylethanolamine; pH dependence; Vesicle permeability; Cholate–phospholipid micelle (Shi, S.P. (982) 187)

Squalene; Lanosterol demethylation; Hydroxymethylglutaryl-CoA; Acyl-CoA : cholesterol acyltransferase; (Rat) (Strandberg, T.E. (1001) 150)

Choline glycerophospholipid
Phospholipid acyl chain; Ethanolamine glycerophospholipid; Acyl chain composition; Dietary modification (Yeo, Y.K. (1001) 25)

Choline kinase
Phosphatidylcholine synthesis; Aromatic hydrocarbon receptor (Paulson, B.K. (1004) 274)

Choline metabolite
Phosphatidylcholine biosynthesis; Kennedy pathway; Malaria; (*P. knowlesi*); (Monkey erythrocyte) (Ancelin, M.L. (1001) 82)

Cholinergic receptor
Inositol lipid metabolism; Calcium ion, intracellular; Verapamil; Phorbol ester; (Bovine anterior pituitary cell) (Wood, C.A. (1013) 180)

Cholinergic stimulation
Inositol polyphosphate; Carbachol; Ion transport; (Human sweat duct cell) (Doughney, C. (1010) 352)

Cholinesterase
Isoenzyme; Albumin-enzyme conjugate; (Human) (Masson, P. (998) 258)

Acetylcholinesterase; Ligand binding; Inhibitor; Enzyme denaturation (Payne, C.S. (999) 46)

Choline uptake
γ-Aminobutyric acid; *n*-Alcohol; Synaptosome; Synaptic plasma membrane; Membrane potential (Mrak, R.E. (984) 97)

Phosphatidylcholine biosynthesis; Electropermeabilization; Hemicholinium-3; Rat glioma; Cellular compartmentation (George, T.P. (1004) 283)

Chondroitin
Proteoglycan; Vitamin A deficiency; Cornea; Keratin sulfate (Twining, S.S. (992) 181)

Chondroitin sulfate
Cartilage; Ossification; Glycosaminoglycan (Harab, R.C. (992) 237)

Chondroitin sulfate proteoglycan
LDL binding; Arterial wall; (Bovine) (Srinivasan, S.R. (1006) 159)

Chorionic gonadotropin synthesis
Gene structure; mRNA, steady state level; Tumor cell line; (Human) (Cosgrove, D.E. (1007) 44)

Choroid plexus
Amiloride; Sodium ion–proton exchanger; Cerebrospinal fluid; Sodium-22 uptake; Cell pH (Murphy, V.A. (979) 187)

Chou-Fasman calculation
Circular dichroism; Neuropeptide Y; Raman spectroscopy; Solid phase synthesis; Vasoconstrictor activity (Balasubramaniam, A. (997) 176)

Chromaffin cell
Prostaglandin binding; Catecholamine release; (Borine adrenal) (Karaplis, A.C. (1010) 369)

Chromaffin granule
Adrenal medulla; Exocytosis; Stimulus secretion; Protein phosphorylation; Protein kinase C (Brocklehurst, K.W. (979) 157)

Adhesion; Lysis; Hyperosmotic relaxation lysis; Intragranular vesicle; Freeze-fracture (Engel, J. (985) 111)

Chromatin
DNA–protein interaction; Evolution (Avramova, Z. (1007) 109)

Chromatin aggregation
Bleomycin; Nascent chromatin; Chromatin fragmentation; Chromatin maturation; (Mouse L1210 nuclei) (Woynarowski, J.M. (1007) 116)

Chromatin fragmentation
Bleomycin; Nascent chromatin; Chromatin aggregation; Chromatin maturation; (Mouse L1210 nuclei) (Woynarowski, J.M. (1007) 116)

Chromatin maturation
Bleomycin; Nascent chromatin; Chromatin aggregation; Chromatin fragmentation; (Mouse L1210 nuclei) (Woynarowski, J.M. (1007) 116)

Chromatin–protein interaction
High mobility group protein; Nonhistone protein; (Calf thymus) (Bernués, J. (1008) 52)

Chromatin–retinol interaction
DNA; Vitamin A; (V79 Chinese hamster cell line) (Ferrari, N. (1007) 30)

Chromatin structure
Protamine gene; (Trout testis) (Nickel, B.E. (1007) 23)

Protamine; Dansyl modification; (Boar sperm nuclei) (Akama, K. (1008) 198)

Chromatophore
Bicarbonate effect; Electron transfer; Quinone; Photosynthetic bacterium; Reaction center; Electron acceptor complex; Photosynthesis; (*Rb. sphaeroides*) (Shopes, R.J. (974) 114)

Photophosphorylation; NMR, ^{31}P-; (*C. vinosum*) (Ohta, M. (1011) 33)

Chromatosome
Histone; Core particle; Micrococcal nuclease; (Chicken erythrocyte) (Lindsey, G.G. (1009) 257)

Chromophore
Protonated Schiff base; Opsin shift; Resonance Raman spectroscopy; Lipid–protein interaction; (Bacteriorhodopsin) (Pande, C. (973) 257)

Circular dichroism; Phytochrome; Tetrapyrrole; Topography; (Oat) (Singh, B.R. (996) 62)

Chromosomal protein
Primary structure; Transcription; (Archaebacteria) (Chartier, F. (1008) 309)

Chronic myelogenous leukemia
Band 3 protein; Leukemia; Ankyrin binding site; (Human blood) (Kundu, M. (985) 97)

Chylomicron
Lipoprotein lipase; Hepatic triacylglycerol lipase; Tumor necrosis factor; (Human) (Chajek-Shaul, T. (1001) 316)

Chylomicron formation
Intestinal lipoprotein; Golgi apparatus; Endoplasmic reticulum; VLDL (Nutting, D. (1004) 357)

Chylomicron-like emulsion
Lipolysis; Cholesteryl oleate; Triolein; (Rat) (Mortimer, B.C. (1002) 359)

Chylomicron synthesis
Nephrotic syndrome; Hyperlipoproteinemia; Lymph flow rate; Triacylglycerol; Intestinal apolipoprotein; (Rat) (Levy, E. (1005) 20)

Chymotrypsin
Secondary structure; Raman; High pressure (Heremans, L. (999) 192)

Parathyroid hormone; Peptide degradation; UMR-106 cell; Endopeptidase; (Rat) (Yamaguchi, T. (1010) 177)

α-Chymotrypsin
Structure–function relation; Inorganic salt (Przybycien, T.M. (995) 231)

Cilia
cyclic AMP; Protein kinase; (*Paramecium*) (Mason, P.A. (1010) 108)

cyclic AMP; Protein kinase; (*Paramecium*) (Mason, P.A. (1010) 116)

Cimetidine
Renal tubular transport; Drug interaction; Procainamide; (Rat kidney) (Okudaira, N.-I. (981) 1)

Circular dichroism
Chlorophyll *a*/*b* complex; Chlorophyll *b*; Prochlorophyte; (*P. hollandica*) (Matthijs, H.C.P. (975) 185)

Phorbol ester; Protein kinase C (Frézard, F. (979) 316)

Protein 4.1; Spectrin; Actin; Hemin; Fluorescence (Solar, I. (983) 199)

Erythrocyte plasma membrane; Calcium pump; ATPase, Ca^{2+}-; Conformational state; Fluorescence energy transfer; Fluorescence quenching; (Porcine blood) (Wrzosek, A. (986) 263)

Polyene antibiotic; Filipin; Phosphatidylcholine; Dimyristoylphosphatidylcholine; Large unilamellar vesicle (Milhaud, J. (987) 193)

Chromophore; Phytochrome; Tetrapyrrole; Topography; (Oat) (Singh, B.R. (996) 62)

Chou-Fasman calculation; Neuropeptide Y; Raman spectroscopy; Solid phase synthesis; Vasoconstrictor activity (Balasubramaniam, A. (997) 176)

Crotoxin homolog; Secondary structure; Fluorescence; Fourier transform infrared spectroscopy (Aird, S.D. (997) 211)

Phospholamban; Protein phosphorylation (Simmerman, H.K.B. (997) 322)

Hevein; Wheat germ agglutinin; Disulfide bridge (Rodríguez-Romero, A. (998) 21)

Bean storage protein; Derivative spectroscopy; Fluorescence; Proteolysis; Quenching; Surface hydrophobicity (Deshpande, S.S. (998) 179)

Lexitropsin; DNA sequence specificity; Netropsin ligand binding; DNA–drug interaction (Burckhardt, G. (1009) 11)

Circular dichroism, induced
Trifluoperazine fluorescence; Fluorescence, trifluoperazine; S100 protein; Calcium ion binding protein (Ogoma, Y. (997) 188)

Circulation
Phospholipase A_2; Platelet; Inflammation; (Rat) (Murakami, M. (1005) 270)

Class I
recombinant DNA; Isozyme gene; Expression plasmid; Aldolase; Glycolytic pathway; Aldolase gene; (Human gene); (*E. coli* host) (Sakakibara, M. (1007) 334)

Clathrin
Coated vesicle; Lipid–protein interaction; ESR; NMR, ^{31}P-; Fluorescence anisotropy (Privat, J.-P. (979) 257)

Cleavage preference
Kallikrein; Amino terminal sequence; Radioimmunoassay; Affinity labeled tracer; (Rat plasma) (Paquin, J. (999) 103)

Clofibrate
Carnitine acyltransferase; Periportal zone; Perivenous zone; Metabolic zonation; (Rat hepatocyte) (Tosh, D. (992) 245)

Cloning
Lectin gene; Transcription initiation site; (*Sarcophaga*) (Kobayashi, A. (1009) 244)

Clonogenicity
Photodynamic effect; Hematoporphyrin derivative; Cytotoxicity; (Mouse L929 fibroblast); (Chinese hamster cell) (Boegheim, J.P.J. (1012) 237)

Clot binding
Tissue plasminogen activator; Enzyme activity; Fibrin (Lavie, E. (991) 62)

cyclic CMP
Cytidylate cyclase; Enzyme immunoassay; (Mouse tissue homogenate) (Yamamoto, I. (993) 191)

c-*myc*
cyclic AMP; Mastocytoma; c-*fos*; Gene expression; Differentiation; (Mouse cell) (Goulding, M.D. (1007) 99)

c-*myc* gene
Retinoic acid; Collagen IV; Cell cycle; Tumorigenicity; Cell differentiation; (F9 teratocarcinoma cell) (Schulz, W.A. (1013) 125)

c-*myc* oncogene
DNA methylation; DNA rearrangement (Bianchi, N.O. (1007) 350)

Coated vesicle
Clathrin; Lipid–protein interaction; ESR; NMR, ^{31}P-; Fluorescence anisotropy (Privat, J.-P. (979) 257)

Cobalamin
Autoantibody; Binding protein; Isoelectric focusing; Transcobalamin (Hansen, M. (992) 209)

Intrinsic factor; Intrinsic factor receptor; Protein purification; (Human); (Pig ileum) (Guéant, J.L. (992) 281)

Cobalamin binding protein
Protein purification; (Chicken egg yolk) (Zaman, K. (998) 102)

Cobalt
Carbonic anhydrase; Refolding; Renaturation; Denaturation; Apoenzyme (Bergenhem, N. (998) 277)

Cobalt derivative
Superoxide dismutase; Spectroscopy (Salvato, B. (998) 14)

Cobalt(II) reconstitution
β-Lactamase II; ESR; metalloenzyme; (*B. cereus*) (Myers, J.L. (995) 264)

Cobaltous ion
Ribulose-bisphosphate carboxylase; Transient intermediate; Optical absorption (Brändén, R. (995) 75)

Coenzyme
S-Adenosylhomocysteinase; Spectroscopy; (Rat liver) (Gomi, T. (994) 172)

Coenzyme A
Acyl-CoA; Heart muscle microsome; Lysophosphatidylcholine; Phosphatidylcholine; Transacylase (Sanjanwala, M. (1006) 203)

Coenzyme A transferase
Succinyl-CoA; 3-Hydroxy-3-methylglutarate; (Rat-liver mitochondria) (Francesconi, M.A. (999) 163)

Cofactor
Pentose phosphate cycle; (Rat liver) (Garcia, G. (990) 59)

Colchicine
Hydrophobic chromatography; Immobilized colchicine; Glyceraldehyde-3-phosphate dehydrogenase (Kocha, T. (991) 56)

Mebendazole; Microtubule inhibition; Nematode; Tubulin; (*C. elegans*) (Russell, G.J. (993) 233)

Thymidylate synthetase; Thymidine kinase; Liver regeneration; Vincristine; (Rat) (Tsukamoto, I. (1009) 191)

Colipase
Monoclonal antibody; Immunoinactivation; Antigenic specificity; Pancreas (La Fournière, L. (998) 158)

Lipase; Carboxyl ester lipase; Arachidonic acid; Linoleic acid (Chen, Q. (1004) 372)

Collagen
Serine proteinase; Calcium; Fibronectin; Extracellular matrix; (Malignant hamster embryo fibroblast); (Nil2C2) (Sakiyama, H. (990) 156)

Glomerular epithelial cell; Glomerular mesangial cell; Glomerular sclerosis; Proline; Hydroxyproline; (Human glomerulus) (Ardaillou, N. (991) 445)

Cyanogen bromide fragment; Fibril diameter; Hydroxylysine glycoside; Transparency; (Bovine cornea) (Ibrahim, J. (992) 9)

Fibronectin; Smooth muscle cell; Heparin fragment; Biosynthesis; Modulation; (Pig) (Asselot-Chapel, C. (993) 240)

Fibronectin; Bacterial adherence; Extracellular matrix; Laminin; (*C. jejuni*) (Kuusela, P. (993) 297)

Crosslinking; Collagen degradation; Glycation; Glucose; Fluorescence (Fujimori, E. (998) 105)

Collagenase
Metalloproteinase; Stromelysin; (Rat mammary carcinoma) (Nethery, A. (994) 149)

Osteoblast; Collagen degradation; 1,25-Dihydroxyvitamin D-3; Plasminogen activator; Metalloproteinase; Tissue inhibitor of metalloproteinases; (Mouse) (Thomson, B.M. (1014) 125)

Collagenase assay
Procollagenase assay; Collagenase inhibitor; Metalloproteinase; Metalloproteinase inhibitor (Lefebvre, V. (992) 355)

Collagenase inhibitor
Procollagenase assay; Collagenase assay; Metalloproteinase; Metalloproteinase inhibitor (Lefebvre, V. (992) 355)

Collagen biosynthesis
Collagen crosslinking; Lung development; (Rat) (Last, J.A. (990) 182)

Collagen crosslinking
Collagen biosynthesis; Lung development; (Rat) (Last, J.A. (990) 182)

Collagen degradation
Collagen; Crosslinking; Glycation; Glucose; Fluorescence (Fujimori, E. (998) 105)

Osteoblast; 1,25-Dihydroxyvitamin D-3; Plasminogen activator; Collagenase; Metalloproteinase; Tissue inhibitor of metalloproteinases; (Mouse) (Thomson, B.M. (1014) 125)

Collagen IV
Retinoic acid; Cell cycle; Tumorigenicity; Cell differentiation; c-*myc* gene; (F9 teratocarcinoma cell) (Schulz, W.A. (1013) 125)

Collagen synthesis
In vitro; Tissue explant; Intestine; Aging; (Rat) (Martens, M.F.W.C. (993) 252)

Colloid osmotic lysis
Band 3 protein; Bisulfite; Bicarbonate; Sulfate; Anion transport; (Human erythrocyte) (Labotka, R.J. (981) 358)

Colloid uptake
Poly(DL-lysine)polymerization; Tumor cell; Surface charge; (P388 ascites leukemia cell) (Anghileri, L.J. (982) 307)

Colon cancer
Dimethylhydrazine; Corn oil; N^1-Acetylspermidine; Spermidine N^1-acetyltransferase; (Rat colon) (Halline, A.G. (990) 280)

Mucin; Ion exchange chromatography; Glycoprotein (Shimamoto, C. (991) 284)

Colon tumor
Glycolipid; Monoclonal antibody; Adenocarcinoma; (Rat) (Thurin, J. (1002) 267)

Colony stimulating factor
Lipoprotein lipase; Bone marrow macrophage; Macrophage; (Mouse) (Goldman, R. (1001) 120)

Colorectal cancer
Ribosomal protein; Gene expression; Tumor marker; Nucleotide sequence; Growth regulation; (Human) (Chester, K.A. (1009) 297)

Colostrum
Lactoferrin; Milk; ssDNA; Amino acid sequence; Purification; (Porcine) (Hutchens, T.W. (999) 323)

Commercial diet
Bradykinin; Glucose absorption; Glucose metabolism; (Rat small intestine) (Kellett, G.L. (992) 128)

Compactin
Squalene synthetase; Sterol regulation; Lipoprotein; U18666A; (Hep G2) (Cohen, L.H. (1002) 69)

Compartmentalized water
Thrombolysis; t-PA; Fibrin; NMR; Plasminogen activator (Azoury, R. (995) 295)

Compensatory renal growth
1,2-Diacylglycerol; Inositol phosphate; Extracellular calcium ion; (Rat) (Banfić, H. (1002) 273)

Competitive binding
Selenoprotein P; Radioreceptor assay; Receptor; Selenium transport protein; (Rat kidney); (Rat liver); (Rat testis) (Gomez, Jr., B. (979) 20)

Complement
Hemolysin; Invertebrate; Sphingomyelin; Polymerization; Membrane lesion; (Sheep erythrocyte); (Earthworm) (Roch, P. (983) 193)

Complex lipid
Archaebacterium; Phospholipid; Cyclized phosphate; Haloalkaliphile; (*N. occultus*) (Lanzotti, V. (1001) 31)

Lipid characterization; Phosphoglycolipid; (*Thermococcales*); (Archaebacteria) (Lanzotti, V. (1004) 44)

Component resolution
α-Ketoglutarate dehydrogenase complex; Kinetic parameter; (*N. crassa*) (Bessam, H. (990) 66)

Component solubility
Platelet membrane; Detergent; Cell lysis; Leakage; Electron microscopy; Aggregation; (Human blood) (Shiao, Y.-J. (980) 56)

Compound 48/80
Calmodulin; Calcium pump; Sodium/potassium pump; ATPase, Mg^{2+}- (Di Julio, D. (981) 337)

ATPase, Ca^{2+}-; Calcium ion pump; Calmodulin; EGTA; Erythrocyte; (Human) (Rossi, J.P.F.C. (996) 153)

Compound I
Ligninase; Compound II; Hydrogen peroxide; Veratryl alcohol; Potassium ferrocyanide; One electron oxidation; Pre-steady-state kinetics (Harvey, P.J. (994) 59)

Compound II
Ligninase; Compound I; Hydrogen peroxide; Veratryl alcohol; Potassium ferrocyanide; One electron oxidation; Pre-steady-state kinetics (Harvey, P.J. (994) 59)

Compound III
Lignin peroxidase; Phenolic hydroxylation (Schmall, M.W. (999) 267)

Computer modeling
Glutathione *S*-transferase; Rapid equilibrium; Random sequential bi-bi mechanism (Ivanetich, K.M. (998) 7)

Phospholipase A_2; Primary structure; Neurotoxin; Toxic site; (*V. ammodytes ammodytes*); (Snake venom) (Križaj, I. (999) 198)

Concanavalin A-Sepharose
α_1-Proteinase inhibitor; Natural killer cell activity; (Human) (Lejeune, P.-J. (990) 122)

Condensation
Fatty acid elongation; Lipid–protein interaction; Phospholipase A_2; Free fatty acid (Yoshida, S. (1004) 239)

Conductance channel
Peroxisomal membrane; Porin; Single-channel measurement; Permeability (Lemmens, M. (984) 351)

Conductance inhibitor
Chloride conductance; Jejunum; Brush-border vesicle; (Pig) (Forsyth, G.W. (977) 19)

Conductimetry
Elastase; Elastolysis; Tetraalanine; (*P. aeruginosa*) (Saulnier, J.M. (995) 285)

Conductive transport
Sodium ion–proton exchange; Brush-border membrane vesicle; (Human ileum) (Ramaswamy, K. (981) 193)

Conformational change
FT-IR; Amide proton exchange; Rhodopsin structure; Bacteriorhodopsin structure (Haris, P.I. (995) 160)

Prothrombin fragment 1; Calcium; (Human) (Lau, H.K.F. (996) 95)

Nucleotide structure; FT-IR; NMR, ^1H-; X-ray diffraction (Tajmir-Riahi, H.-A. (1009) 168)

Conformational stability
Monomeric bacteriorhodopsin; Unfolding (Maglova, L. (975) 271)

Conformational state
Erythrocyte plasma membrane; Calcium pump; ATPase, Ca^{2+}-; Circular dichroism; Fluorescence energy transfer; Fluorescence quenching; (Porcine blood) (Wrzosek, A. (986) 263)

Conformational transition
Cytochrome oxidase; Peroxy complex; Proteoliposome; Proton pumping; Spectroscopy (Vygodina, T. (973) 390)

ATPase, Na^+/K^+-; Enzyme conformation; Antibody binding site; Ion binding (Friedman, M.L. (995) 42)

Conjugated polyketone reductase
Ketopantoyl-lactone reductase; Carbonyl reductase; 2-Dehydropantoyl-lactone reductase; (*C. parapsilosis*) (Hata, H. (990) 175)

Consensus sequence
AMP activated protein kinase; Protein kinase; Substrate specificity; Glycogen synthase; Phosphorylase kinase; Phosphorylation site (Carling, D. (1012) 81)

Contact site
Creatine kinase; Mitochondrial membrane; Myocardium; Electron microscopy; (Rat) (Biermans, W. (974) 74)

Mitochondrion; Peripheral kinase; Hexokinase; Creatine kinase; Nucleoside-diphosphate kinase (Adams, V. (981) 213)

Valine-tRNA synthetase; NMR, ^{13}C-; $tRNA_I^{Val}$; tRNA–protein interaction; (*E. coli*); (*B. stearothermophilus*) (Schweizer, M.P. (1008) 293)

Contraction
Fatty acid; Glycogen metabolism; Glucose; (Porcine vascular smooth muscle) (Barron, J.T. (1012) 69)

Contraluminal membrane
Anion transport; Molecular charge distribution; Hydrophobicity; Sulfate (Fritzsch, G. (978) 249)

Control analysis
Fluid secretion; Pancreas model; Nonequilibrium thermodynamics; Thermodynamics (Kuijpers, G.A.J. (984) 71)

Cooperativity
ATPase, F_1-; Azide inhibition; Unisite catalysis; Inhibitor protein, IF_1 (Harris, D.A. (974) 156)

Hemocyanin; Disulfide bridge; (*P. interruptus*) (Neuteboom, B. (998) 126)

Spin label; Slow transition; Protein modification; ESR (Graupe, K. (999) 176)

Coordination structure
Etioheme; Myoglobin; Heme recognition; Oxygen binding (Neya, S. (996) 226)

Copper
Iron; Ascorbate; Oxidative damage; Hemolytic anemia; Thalassemia; (Human red blood cell) (Shinar, E. (1014) 66)

Copper displacement
Ovotransferrin; Metal binding site; Iron (Xian-Xuan, C. (992) 160)

Copper increase
Metallothionein; Copper(I) thiolate; Melanoma; ELISA; Immunoblot; (Horse) (Krauter, B. (1013) 212)

Copper inhibition
Primary photochemistry; Photosystem II reaction center; Chlorophyll fluorescence; Electron transport; (Pea chloroplasts) (Renganathan, M. (974) 247)

Copper(I) thiolate
Metallothionein; Copper increase; Melanoma; ELISA; Immunoblot; (Horse) (Krauter, B. (1013) 212)

Copper toxicity
Metallothionein; Metal binding protein; Metal resistance; (Hepatoma cell) (Freedman, J.H. (992) 145)

Core II protein, 40 kDa
Ubiquinol : cytochrome *c* oxidoreductase; Steady state kinetics; Subunit VI, 17 kDa; Gene deletion; (HR2 wild type yeast) (Schoppink, P.J. (974) 192)

Core particle
Histone; Chromatosome; Micrococcal nuclease; (Chicken erythrocyte) (Lindsey, G.G. (1009) 257)

Core protein
Photosystem I; Reaction center; P-700; Iron-sulfur center; Chaotropic agent; (*Synechococcus* PCC 6301); (*A. nidulans*) (Parrett, K.G. (973) 324)

Cornea
Proteoglycan; Vitamin A deficiency; Keratin sulfate; Chondroitin (Twining, S.S. (992) 181)

Corn oil
Colon cancer; Dimethylhydrazine; N^1-Acetylspermidine; Spermidine N^1-acetyltransferase; (Rat colon) (Halline, A.G. (990) 280)

Coronary artery
Prostaglandin endoperoxide H_2; Prostacyclin; Thromboxane; Platelet; Prostacyclin synthase (Mayeux, P.R. (1011) 18)

Coronary heart disease
Icosapentaenoic acid; ($n-3$) Fatty acid; (Rat enterocyte) (Chernenko, G.A. (1004) 95)

Correction factor
Chlorophyll determination; Chlorophyll a/b ratio; Arnon equation; Magnesium atomic absorption spectroscopy (Porra, R.J. (975) 384)

Corticosteroid metabolism
11-Hydroxysteroid dehydrogenase; Renal epithelial cell line; Corticosterone; Adrenal steroid; (Monkey); (Dog); (Pig) (Korbmacher, C. (1010) 311)

Corticosterone
11-Hydroxysteroid dehydrogenase; Renal epithelial cell line; Corticosteroid metabolism; Adrenal steroid; (Monkey); (Dog); (Pig) (Korbmacher, C. (1010) 311)

Cortisone
Galactosyltransferase; Phorbol ester; Development; (Rat small intestine) (Ozaki, C.K. (991) 243)

Cosedimentation
Protein identification; *N*-Formyl peptide; (Human); (Neutrophil) (Allen, R.A. (991) 123)

Cotransport
Dicarboxylate transport; Succinate uptake; Placental epithelium; (Human) (Ogin, C. (980) 248)

Proton transport; Galactoside dependence; Lactose carrier; *lac*Y; Transport energetics (King, S.C. (982) 253)

Anion transport; Erythrocyte membrane; Dansyl chloride; Band 3 protein (Berghout, A. (986) 75)

Coupling factor
Epsilon subunit; Isozyme heterogeneity; Dithiothreitol; (Spinach); (*C. reinhardtii*) (Duhe, R.J. (974) 294)

ATP hydrolysis; ATP synthesis; Proteoliposome; Membrane reconstitution; ATPase, F_0F_1-; (*R. rubrum*) (Slooten, L. (975) 148)

ATP synthesis; Membrane reconstitution; Proton gradient; Luciferase; (*R. rubrum*) (Slooten, L. (976) 150)

Coupling ratio
ATPase, Na^+/K^+-; Reconstituted lipid vesicle; Ion flux; Pump current (Clarke, R.J. (981) 326)

Covalent coupling
Transferrin; Phosphatidylethanolamine; Protein micelle; Liposome (Afzelius, P. (979) 231)

p-Aminophenyl α-D-mannopyranoside; *N*-Glutarylphosphatidylethanolamine; Phospholipid derivative; (Multilamellar liposome) (Weissig, V. (1003) 54)

Covalent enzyme intermediate
α-Amylase; Glycosidic bond hydrolysis; NMR; Enzyme mechanism; Cryological enzymology; (Porcine pancreas) (Tao, B.Y. (995) 214)

CP29
Photosystem II; Chlorophyll *ab* antenna (Camm, E.L. (974) 180)

Chlorophyll-protein complex; Ion-exchange HPLC; Light harvesting; Amino acid sequence, partial; Photosystem II; (Spinach) (Henrysson, T. (977) 301)

C_5 pathway
5-Aminolevulinate dehydratase; Chlorophyll biosynthesis; 4,5-Dioxovalerate; Protochlorophyllide; (*Scenedesmus*) (Kotzabasis, K. (977) 309)

C peptide
Insulinoma peptide; Radioimmunoassay; (Rat) (Al-Ahkras, G. (993) 275)

CpG content
Nucleotide composition; HIV; HTLV 1/2 (Kypr, J. (1009) 280)

Crabtree effect
Yeast; Pyruvate; Pyruvate decarboxylase; Alcoholic fermentation; (*Saccharomyces*); (*Candida*) (Van Urk, H. (992) 78)

Creatine
Creatine kinase equilibrium; Cyclocreatine; NMR, ^{31}P- (LoPresti, P. (998) 317)

Creatine kinase
Contact site; Mitochondrial membrane; Myocardium; Electron microscopy; (Rat) (Biermans, W. (974) 74)

Contact site; Mitochondrion; Peripheral kinase; Hexokinase; Nucleoside-diphosphate kinase (Adams, V. (981) 213)

Sulfhydryl group, essential; Chemical modification; Mercurial (Wu, H. (997) 78)

Creatine kinase equilibrium
Creatine; Cyclocreatine; NMR, ^{31}P- (LoPresti, P. (998) 317)

Critical micellar concentration
Detergent; Phospholipid vesicle; DSC; Fourier transform infrared spectroscopy; Freeze-fracture (Bayerl, T.M. (984) 214)

Crop protection
Cereal; α-Amylase inhibitor; Endochitinase; Protein, PR (Ary, M.B. (999) 260)

Cross bonding
Erythrocyte membrane; Spectrin; Stiffening; (Human) (Fischer, T.M. (985) 218)

Cross-inhibition analysis
Amino acid transport; Brush-border membrane vesicle; (Guinea-pig intestine) (Satoh, O. (985) 120)

Crosslinking
Nearest neighbor relationship; Extrinsic 33 kDa protein; Oxygen evolution; Mn cluster (Enami, I. (973) 35)

Calcium activated neutral proteinase; Proteinase; Localization; Erythrocyte membrane (Sakai, K. (985) 51)

Methotrexate; Methotrexate transport; Leukemia cell; Membrane protein; Anion transport (Jansen, G. (985) 266)

Phosphatidylethanolamine; Phase transition; Dimethylsuberimidate; Fluorescence anisotropy, steady-state; *cis*-Parinaric acid (Roth, M.R. (986) 217)

Fibrinogen; Calcium binding; [A]α chain; Surface labeling (Apap-Bologna, A. (995) 70)

Cytochrome *P*-450_{SCC}; Adrenodoxin; Adrenodoxin binding site; Ternary complex (Turko, I.V. (996) 37)

Collagen; Collagen degradation; Glycation; Glucose; Fluorescence (Fujimori, E. (998) 105)

Lipoprotein lipase; Hepatic lipase; Heparin; HDL structure; Apolipoprotein (Swaney, J.B. (1002) 338)

Microsomal membrane; Hormone receptor; Somatotropin; Prolactin; Growth hormone; (Rat hepatocyte) (Robetto, E.J. (1013) 223)

Crotonobetaine
L(−)-Carnitine; Dehydratase; Carnitine dehydratase; (*E. coli*) (Jung, H. (1003) 270)

Crotoxin
Phospholipase A_2; Catalytic subunit; Cation interaction (Radvanyi, F. (1006) 183)

Crotoxin homolog
Secondary structure; Fluorescence; Circular dichroism; Fourier transform infrared spectroscopy (Aird, S.D. (997) 211)

Cryo-electron microscopy
Membrane fusion; Vitrification; Lipidic particle; Sonicated vesicle (Frederik, P.M. (979) 275)

Cryological enzymology
α-Amylase; Glycosidic bond hydrolysis; NMR; Covalent enzyme intermediate; Enzyme mechanism; (Porcine pancreas) (Tao, B.Y. (995) 214)

Cryoprotectant
Lipid phase transition; Inverted hexagonal phase; Hofmeister effect; Phosphatidylethanolamine; Hexagonal H_{II} phase (Koynova, R.D. (980) 377)

Cryoprotection
Freeze-thaw damage, mechanical; Trehalose; Membrane permeability; Osmotic stress; (Spinach thylakoid) (Hincha, D.K. (987) 231)

Cryo-stage system
Myelin figure; Growth mechanism; Phosphatidylcholine; Scanning electron microscopy (Sakurai, I. (985) 101)

Cryptoviolin
Phycoerythrin 566; Biliprotein; Photosynthetic pigment; Energy migration; Fluorescence (Guard-Friar, D. (973) 118)

Crystal disorder
Bone mineral; Crystallinity; Age (Matsushima, N. (992) 155)

Crystallin
Posttranslational protein modification; Tryptophan photooxidation; (Calf lens) (Pulcini, D. (995) 64)

α-Crystallin
Lens protein; Hybrid; Homopolymer (Thomson, J.A. (994) 246)

Protein structure; Protein folding; Protein aggregation; Isoelectric focusing; (Calf lens) (Van den Oetelaar, P.J.M. (995) 91)

Peptide antiserum; Aging; (Bovine lens) (Takemoto, L. (995) 259)

Phosphorylation; Tertiary structure; Tryptophan environment; Sulfhydryl location; Electron microscopy; Light scattering (Augusteyn, R.C. (999) 293)

γ-Crystallin
Human lens; Oxidation; Hydrogen peroxide; Cataract; Photosensitizer; *N*-Formylkynurenine; Superoxide (Andley, U.P. (997) 284)

Crystallinity
Bone mineral; Crystal disorder; Age (Matsushima, N. (992) 155)

Crystal protein
δ-Endotoxin; Liposome; Phospholipid; (*B. thuringiensis aizawai*) (Haider, M.Z. (978) 216)

Crystal structure
Amphiphilic compound; Heptane-1,2,3-triol (Müller-Fahrnow, A. (978) 176)

Zwitterion; Detergent; X-ray diffraction (Egner, U. (992) 404)

***c*-subunit**
Site directed mutagenesis; Mutagenesis; ATPase, F_1F_0-; (*E. coli*) (Fimmel, A.L. (978) 299)

CTP:choline-phosphate cytidylyltransferase
Cytidylyltransferase; Phosphatidylcholine synthesis; Isozyme structure; Enzyme aggregate (Weinhold, P.A. (1006) 299)

CTP:phosphocholine cytidylyltransferase
Enzyme translocation; Phosphatidylcholine synthesis; Calcium; (Rat hepatocyte) (Sanghera, J.S. (1003) 284)

CTP synthetase
Lymphocyte proliferation; Purine metabolism; IMP dehydrogenase; Pyrimidine metabolism; (Human) (Marijnen, Y.M.T. (1012) 148)

Cultured mammalian cell
Formycin B; Nucleoside transport; (Human erythrocyte) (Plagemann, P.G.W. (1010) 7)

Cupric ion
Glycolipid transfer protein; Sulfhydryl group; Intramolecular disulfide bond; Disulfide bond; Oligomerization; (Pig brain) (Abe, A. (985) 38)

Current-voltage characteristic
Hemolysin; Ion channel; Single-channel current; Phospholipid bilayer; Selectivity; pH dependence; (*E. coli*) (Ropele, M. (985) 9)

Curvature
Lipid vesicle; Lipid asymmetry; Phosphatidylethanolamine; Ganglioside (Thomas, P.D. (978) 85)

Phospholipid; Reorientational dynamics; ESR; Cholestane spin label; Lipid vesicle; Hydration (Korstanje, L.J. (982) 196)

'Cut-off' effect
Alkane–membrane interaction; Anesthesia; NMR, ^{2}H- (Pope, J.M. (980) 69)

Cyanate inhibition
Nitrate uptake; Pump and leak mechanism; Solute accumulation control; (*C. caldarium*) (Fuggi, A. (974) 141)

Cyanide
Catalytic unit; Proton pumping; Oxidant-pulse experiment; Rate/pulse method; Cytochrome-*c* oxidase; Cytochrome-*c* reductase; Myxothiazol; (Rat liver mitochondria) (Moody, A.J. (973) 29)

Cyanine dye
Phase separation; Lipophile; Bilayer; Fluorescence; NK-529 (Yu, B.-Z. (980) 15)

Cyanobacteria
Plastocyanin; Cytochrome *c*-553; Adsorption chromatography; Photosynthesis (Tan, S. (973) 111)

Cyanobacterium
NADH–quinone oxidoreductase, thylakoid-bound; Respiratory chain; (*A. variabilis*) (Alpes, I. (973) 41)

Photosystem II; Oxygen evolution; (*P. laminosum*) (Rolfe, S.A. (973) 220)

State transition; Phycobilisome mutant; (*Synechococcus* sp. PCC 7002) (Bruce, D. (974) 66)

Arginine; Enzyme characterization; Photosystem II; (*Synechococcus* sp.) (Meyer, R. (975) 80)

Hydrogenase; Immunochemical analysis; (*A. cylindrica*) (Ewart, G.D. (997) 83)

Chloroplast; Protein characterization; DNA-binding protein; (*Synechococcus*); (*A. quadruplicatum*) (Crevel, G. (1007) 36)

Cyanocytochrome *c*
Ferricyanide; Photodecomposition; Raman resonance (Chottard, G. (997) 155)

Cyanogen bromide fragment
Collagen; Fibril diameter; Hydroxylysine glycoside; Transparency; (Bovine cornea) (Ibrahim, J. (992) 9)

Monoclonal antibody; Apolipoprotein A-I; (Human) (Fidge, N. (1003) 84)

Cyanogen bromide treatment
Asialoorosomucoid; Protein transport; (Rat hepatocyte) (Chang, T.-m. (1010) 166)

Cyclic electron transfer
Reaction center; Cytochrome bc_1 complex; Proton pumping; Photosynthesis; Liposome reconstitution; (*Rb. sphaeroides*); (*Rb. capsulatus*) (Crielaard, W. (974) 211)

Cyclized phosphate
Archaebacterium; Phospholipid; Complex lipid; Haloalkaliphile; (*N. occultus*) (Lanzotti, V. (1001) 31)

Cyclocreatine
Creatine kinase equilibrium; Creatine; NMR, ^{31}P- (LoPresti, P. (998) 317)

Cycloheximide
Ethanol; General amino-acid permease; Amino acid transport; (*S. cerevisiae*) (Ferreras, J.M. (979) 375)

Emetine; mRNA accumulation; (*D. discoideum*) (Ratner, D.I. (1008) 71)

Insulin-like growth factor I; Phospholipid synthesis; (Rat kidney) (Crljen, V. (1012) 24)

ω-Cyclohexyl fatty acid
Phosphatidylcholine; Fourier transform infrared spectroscopy; Lipid; Thermotropic phase behavior (Mantsch, H.H. (980) 42)

***N*-Cyclohexyl-*N'*-(4-dimethylamino-1-naphthyl)carbodiimide**
ATPase, $(Ca^{2+} + Mg^{2+})$-; Spin label; Fluorescein isothiocyanate; Calcium binding site; (Rabbit skeletal muscle) (Munkonge, F. (979) 113)

Cyclooxygenase
Lipoxygenase; Prostaglandin; Leukotriene (Holtzman, M.J. (1003) 204)

Prostacyclin; Selenium; PAF; Glutathione peroxidase; (Human endothelial cells) (Hampel, G. (1006) 151)

Cadmium; Prostaglandin E_2 synthesis; (Mouse osteoblast-like cells) (Suzuki, Y. (1012) 135)

Cystatin
Stefin; Cysteine proteinase; Cancer; (Human liver); (Human sarcoma) (Lah, T.T. (993) 63)

Cysteine
Iron; Glutathione; γ-Glutamylcysteine synthetase; Oxidative injury; (Mouse) (Ogino, T. (1006) 131)

Cysteine proteinase
Glomerular basement membrane; Membrane degradation; (Human); (Kidney cortex) (Thomas, G.J. (990) 246)

Cystatin; Stefin; Cancer; (Human liver); (Human sarcoma) (Lah, T.T. (993) 63)

Cysteine proteinase, high molecular weight ATP activation
α_1-Macroglobulin; Skeletal muscle; (Rat) (Dahlmann, B. (991) 253)

Cysteine sulfinic acid
Mitochondrion; Chloroplast; Sulfolipid biosynthesis; Sulfite; *S*-Sulfocysteine; (*Euglena*) (Saidha, T. (1001) 268)

Cystic fibrosis
Serum activation; Enterokinase; Immunoreactivity; Trypsin; (Human) (Carrère, J. (993) 137)

Cystine efflux
Lysosomal membrane; Sialic acid; Stearylamine; (Rat liver) (Jonas, A.J. (984) 257)

Cystine translocation
Cystinosis; Membrane fluidity; Temperature sensitivity; (Human skin fibroblast) (Forster, S. (1013) 7)

Cystinosis
Cystine translocation; Membrane fluidity; Temperature sensitivity; (Human skin fibroblast) (Forster, S. (1013) 7)

Cytidylate cyclase
cyclic CMP; Enzyme immunoassay; (Mouse tissue homogenate) (Yamamoto, I. (993) 191)

Cytidylyltransferase
CTP : choline-phosphate cytidylyltransferase; Phosphatidylcholine synthesis; Isozyme structure; Enzyme aggregate (Weinhold, P.A. (1006) 299)

Cytochrome
Oxygen consumption; Azide; Inhibitor resistant respiration; (Frog); (Skate) (Kidder III, G.W. (973) 59)

Sulfide; Electron transport; B-700; (*O. Limnetica*) (Slooten, L. (973) 272)

Photosynthetic bacteria; Electron transfer; Supercomplex; Reaction center; (*Rb. sphaeroides*) (Joliot, P. (975) 336)

Cytochrome *b*-559
Photosynthesis; Photosystem II; Reaction center; Charge separation; (*Synechocystis* 6803) (Gounaris, K. (973) 296)

Thylakoid membrane; Membrane protein topography; Photosystem II; Immunocytochemistry; Monoclonal antibody (Vallon, O. (975) 132)

Photosynthesis; Photosystem II; Reaction center structure; Extinction coefficient (Miyazaki, A. (975) 142)

Cytochrome *d*; ESR; Electron transport mechanism; Thermodynamics; (*E. coli*) (Meinhardt, S.W. (975) 175)

Photosynthetic electron transport; Photosystem I; Photosystem II; (Spinach chloroplasts) (Ortega, J.M. (975) 244)

Nonheme iron; Bacterioferritin; (*N. winogradskyi*) (Kurokawa, T. (976) 135)

Cytochrome b_5
Phosphatidylcholine vesicle; Fluorescence anisotropy; Cytochrome-b_5 reductase (Pugh, E.L. (985) 255)

Microsomal membrane protein; Protein *N*-acetylation; Orientation of membrane protein (Ozols, J. (997) 121)

NADH–cytochrome-b_5 reductase; Sipunculid; (*P. gouldii*) (Bonomi, F. (999) 147)

Cytochrome bc_1
Iron-sulfur cluster; Rieske protein; Nitrogen ligand; (Bovine heart) (Powers, L. (975) 293)

Cytochrome bc_1 complex
Reaction center; Electron transport; Carotenoid bandshift; Potentiometry; (*Rb. sphaeroides*) (Drachev, L.A. (973) 189)

Enzyme reconstitution; Photophosphorylation; Electron transport; Reaction center; ATP synthase; (*R. capsulatus*) (Gabellini, N. (974) 202)

Reaction center; Cyclic electron transfer; Proton pumping; Photosynthesis; Liposome reconstitution; (*Rb. sphaeroides*); (*Rb. capsulatus*) (Crielaard, W. (974) 211)

Cytochrome b_6f complex; Stigmatellin; Quinol oxidation; Inhibition; (*S. aurantiaca*) (Nitschke, W. (974) 223)

Proton translocation; Proton diffusion; Photosynthetic bacteria; (*Rb. capsulatus*) (Jones, M.R. (975) 34)

Electron transport chain; Quinone binding; Purple bacterium; (*R. rubrum*) (Kriauciunas, A. (976) 70)

Triphasic reduction; Semiquinone radical; Kinetics, i-site (West, I.C. (976) 182)

Cytochrome *b*-559 D_1D_2 complex
Photosystem II; Intermediate electron acceptor; Pheophytin; ENDOR (Lubitz, W. (977) 227)

Cytochrome b_6f complex
Cytochrome bc_1 complex; Stigmatellin; Quinol oxidation; Inhibition; (*S. aurantiaca*) (Nitschke, W. (974) 223)

Cytochrome *bf* complex
Proton/electron ratio; Proton translocation; Chloroplast; (Pea) (Hope, A.B. (975) 96)

Cytochrome-b_5 reductase
Phosphatidylcholine vesicle; Fluorescence anisotropy; Cytochrome b_5 (Pugh, E.L. (985) 255)

Cytochrome, *b*-type
Protein sequence; Membrane protein; Secondary structure prediction; Histidine ligand; Heme (Degli Esposti, M. (977) 249)

Cytochrome *c*
Electron transfer; Kinetics; Metal hexacyamide complex; Photoexcitation (Cho, K.C. (973) 53)

Cytochrome c_3
Ferredoxin I cross-linking; ESR; Electron transfer, intramolecular; Iron-sulfur cluster; Redox potential (Dolla, A. (975) 395)

Cytochrome c_4
Redox property; NMR; ESR; MCD; (*A. vinelandii*) (Gadsby, P.M.A. (994) 37)

Superoxide dismutase; Luminol; Chemiluminescence; Xanthine oxidase (Radi, R.A. (994) 89)

Cytochrome *c*-552
High redox potential; Acid stable; (*T. ferrooxidans*) (Sato, A. (976) 129)

Reaction center; Electron transfer; Heme; Redox potential; (*Rps. viridis*) (Fritzsch, G. (977) 157)

Electron transfer; Respiratory chain; (Thermophilic bacterium PS3) (Sone, N. (977) 329)

Apocytochrome *c*; Lysozyme; Polylysine; Peripheral protein; Spin label; ESR (Sankaram, M.B. (986) 315)

Cytochrome *c*-553
Plastocyanin; Adsorption chromatography; Cyanobacteria; Photosynthesis (Tan, S. (973) 111)

Electron transport; Respiratory chain; Cytochrome-*c* oxidase; Cytochrome-*c* reductase; (*P. denitrificans*) (Bolgiano, B. (973) 227)

Photosynthetic bacterium; Respiration, bacterial; Electron transfer; (Rhodospirillaceae) (Lavorel, J. (973) 290)

Cytochrome *c*-556
Photosynthetic bacteria; TMAO/DMSO reductase; Electron transport; Periplasmic protein; (*Rb. capsulatus*) (McEwan, A.G. (973) 308)

Cytochrome-*c* oxidase
Catalytic unit; Proton pumping; Oxidant-pulse experiment; Rate/pulse method; Cytochrome-*c* reductase; Myxothiazol; Cyanide; (Rat liver mitochondria) (Moody, A.J. (973) 29)

Electron transport; Respiratory chain; Cytochrome *c*; Cytochrome-*c* reductase; (*P. denitrificans*) (Bolgiano, B. (973) 227)

mitochondrial RNA; Lymphocyte maturation; Northern blot (Bustelo, X.R. (977) 341)

Cytochrome-*c* reductase
Catalytic unit; Proton pumping; Oxidant-pulse experiment; Rate/pulse method; Cytochrome-*c* oxidase; Myxothiazol; Cyanide; (Rat liver mitochondria) (Moody, A.J. (973) 29)

Electron transport; Respiratory chain; Cytochrome *c*; Cytochrome-*c* oxidase; (*P. denitrificans*) (Bolgiano, B. (973) 227)

Cytochrome *d*
Cytochrome *b*; ESR; Electron transport mechanism; Thermodynamics; (*E. coli*) (Meinhardt, S.W. (975) 175)

Cytochrome *f*
Plastocyanin; Electron transport; Chemical modification (Adam, Z. (975) 158)

Cytochrome *f* photooxidation
Photosystem I; Excitation energy distribution; Light state transition; P-700 photooxidation; (Red algae) (Rehm, A.M. (973) 131)

Cytochrome oxidase
Peroxy complex; Proteoliposome; Proton pumping; Conformational transition; Spectroscopy (Vygodina, T. (973) 390)

Optical spectrum; pH dependence (Fabian, M. (973) 414)

Osmometry; Enzyme latency; Energy coupling; Ionic strength; Mitochondrial inner membrane; (Rat liver mitochondria) (Sitaramam, V. (975) 252)

Metal analysis; Electron paramagnetic resonance (Öblad, M. (975) 267)

Flow flash spectrophotometry; Electron transfer; Oxygen intermediate; pH dependence; Temperature dependence (Oliveberg, M. (977) 322)

Cytochrome P-450$_{11\beta}$
Aldosterone synthesizing enzyme; Liposome; Steroidogenesis; (Bovine adrenocortical mitochondria) (Ikushiro, S.-i. (984) 50)

Cytochrome P-450$_{17\alpha,\text{lyase}}$
Cytochrome P-450$_{C21}$; NADPH–cytochrome-*P*-450 reductase; Liposome; Steroidogenesis (Kominami, S. (985) 293)

Cytochrome P-450$_{\text{BM-1}}$
DNA sequence; Amino acid sequence; *P*-450 cloning (He, J.-S. (1009) 301)

Cytochrome P-450$_{C21}$
Cytochrome P-450$_{17\alpha,\text{lyase}}$; NADPH–cytochrome-*P*-450 reductase; Liposome; Steroidogenesis (Kominami, S. (985) 293)

Steroid, Δ^{16}-C_{19}; 5α-Reduced-C_{21} steroid; Substrate specificity; Steroid biosynthesis; (Pig testis microsomes) (Kohara, H. (991) 141)

Monooxygenase; Nematode; (*H. polygyrus*); (*P. redivivus*) (Precious, W.Y. (992) 215)

Cytochrome *P*-450$_{SCC}$
Purification; Multiple molecular form; (Bovine corpus luteum); (Mitochondrion) (Sugano, S. (994) 235)

Axial ligand; Hemoprotein; Mutagenesis, site directed (Shimizu, T. (995) 116)

Adrenodoxin; Crosslinking; Adrenodoxin binding site; Ternary complex (Turko, I.V. (996) 37)

Polychlorinated biphenyl; (Monkey); (Human) (Ohta, K. (996) 142)

Lysine; Succinic anhydride; Chemical modification (Adamovich, T.B. (996) 247)

Adrenodoxin; Adrenodoxin reductase; (Bovine adrenocortex): (Human placenta) (Usanov, S.A. (998) 189)

19-Hydroxyprostaglandin $F_{2\alpha}$; Seminal fluid; Prostaglandin hydroxylase; Mass spectrometry; (Human) (Oliw, E.H. (1001) 107)

Bile acid synthesis; Liver cell culture; (Rabbit); (Hepatocyte) (Whiting, M.J. (1001) 176)

Cytochrome *P*-450 substrate binding
Lanosterol derivative; Lanosterol 14α-demethylase; (Yeast) (Aoyama, Y. (1006) 209)

Cytochrome *P*-450 substrate recognition
Lanostene derivative; Lanosterol demethylase; (Yeast) (Aoyama, Y. (1001) 196)

Cytodifferentiation
Lipid composition; (*T. vorax* V_2S) (Ryals, P.E. (991) 438)

Cytokinin
miaA; Radioimmunoassay; HPLC; Boronate chromatography; tRNA independent cytokinin-like compound; (*S. typhimurium (miaA)*) (Blum, P.H. (1007) 196)

Cytolysin
Hemolysin; Erythrocyte membrane; (Sea anemone) (Doyle, J.W. (987) 181)

Cytomatrix
Glycolytic enzyme; Tubulin; Microtubule; Poly(ethylene glycol); Microtrabeculae (Walsh, J.L. (999) 64)

Cytoplasmic calcium
Thyrotropin; Calcium; Potassium depolarization; Phosphoinositide; Pituitary cell; (Bovine) (Wood, C.A. (1013) 97)

Cytoplasmic enyzme
Tyrosine hydroxylase; Actin, G-; Cytoskeletal element; Catecholamine synthesis (Morita, K. (993) 21)

Cytoplasmic side
ATPase, Na^+/K^+-; Phosphorylation; Amine effect; Extracellular side (Van der Hijden, H.T.W.M. (987) 75)

Cytosine arabinoside
DNA single strand break; Ultraviolet irradiation; (Human fibroblast cell) (Ahnström, G. (1007) 357)

Cytoskeletal assembly
Actin; Macrophage; Phorbol ester (Hartwig, J.H. (1010) 64)

Cytoskeletal element
Tyrosine hydroxylase; Cytoplasmic enyzme; Actin, G-; Catecholamine synthesis (Morita, K. (993) 21)

Cytoskeletal matrix
Rotational dynamics; Erythrocyte membrane; Spectrin; Time-resolved phosphorescence anisotropy; Phosphorescence (Learmonth, R.P. (987) 124)

Cytoskeletal reorganization
Electrofusion; Electropermeabilization; Microtubule; Immunofluorescence; (CHO cell) (Blangero, C. (981) 295)

Cytoskeleton
Receptor capping; Translational entropy (Shiozawa, J.A. (980) 361)

Transferrin receptor; Calcium chelator; Reticulocyte (Morgan, E.H. (981) 121)

Lipid–protein interaction; Phosphatidylserine; Lipid asymmetry; Calpain; Diamide; (Human platelet) (Comfurius, P. (983) 212)

Neutrophil; NADPH oxidase; Membrane structure; Membrane bound enzyme; Oxygen burst; Superoxide generation (Quinn, M.T. (987) 83)

Cytoskeleton protein
Band 3 protein; Ankyrin; Rotational mobility; (Human erythrocyte) (Clague, M.J. (981) 43)

Cytosolic free calcium
Bradykinin antagonist; Prostaglandin synthesis; Prostaglandin E_2; Calcium; Renin synthesis; (Rabbit vascular smooth muscle cell) (Dussaule, J.-C. (1005) 34)

Cytotoxicity
7,22-Dihydroxycholesterol; (22*R*)-22-Hydroxycholesta-4,6-dien-3-one; Microsome (Boberg, K.M. (1004) 321)

Photodynamic effect; Hematoporphyrin derivative; Clonogenicity; (Mouse L929 fibroblast); (Chinese hamster cell) (Boegheim, J.P.J. (1012) 237)

Cell culture; Cell transformation; 7-β-Hydroxycholesterol; Cholesterol metabolism; (Rat astrocyte) (Kupferberg, A. (1013) 231)

Cytotoxin
Enterotoxin; Intestinal secretion; (*C. difficile*) (Torres, J.F. (998) 151)

D

DAHP synthase
Inhibition; D-Erythrose 4-phosphate; D-Ribose 5-phosphate (Tianhui, X. (991) 1)

Dansyl chloride
Anion transport; Erythrocyte membrane; Band 3 protein; Cotransport (Berghout, A. (986) 75)

Dansyl modification
Chromatin structure; Protamine; (Boar sperm nuclei) (Akama, K. (1008) 198)

Daptomycin
Lipopeptide antibiotic; A21978C; LY146032; Calcium dependence; Dimyristoylphosphatidylcholine (Lakey, J.H. (985) 60)

DCMU
Fluorescence induction; Photosystem II; Chlorophyll fluorescence (Hsu, B.-D. (975) 44)

Decidua
Prostanoid; Prostaglandin; Thromboxane; Glutathione; (Human) (Asbóth, G. (1002) 101)

Decyl sucrose
Fucoxanthin-chlorophyll *a/c* protein; Chlorophyll *c*; Supramolecular assembly; Light-harvesting pigment; Energy transfer; (Brown alga); (*D. dichotoma*) (Katoh, T. (976) 233)

Dehydratase
L(−)-Carnitine; Crotonobetaine; Carnitine dehydratase; (*E. coli*) (Jung, H. (1003) 270)

Dehydration
Fluorescence polarization; Freeze-thawing; Parinaric acid; Lipid state; (*E. coli*) (Souzu, H. (978) 112)

Phosphatidylcholine; Freezing; Lyotropic phase behavior (Lynch, D.V. (984) 267)

7-Dehydrocholesterol
Lipid permeability; Membrane fluidity; Microvillus membrane; Cholesterol; (Rat) (Meddings, J.B. (984) 158)

Dehydroepiandrosterone
Steroid hormone; Steroid esterification; HDL_3; Lipoprotein (Leszczynski, D.E. (1014) 90)

Dehydroergosterol
Phospholipid vesicle; Cholesterol analog; Fluorescence (Bar, L.K. (983) 109)

Dehydrogenase mechanism
Deuterated spin label; NAD^+ binding; NAD^+ spin label; Spin–spin interaction; Glyceraldehyde-3-phosphate dehydrogenase (Wilder, R.T. (997) 65)

Dehydrogenase stereospecificity
Deuteration; NAD(P)^{2}H; NMR; EI-MS (Ottolina, G. (998) 173)

Dehydroisoandrosterone
Autoimmune disorder; Systemic lupus erythomatosis (Matsunaga, A. (992) 265)

2-Dehydropantoyl-lactone reductase
Ketopantoyl-lactone reductase; Carbonyl reductase; Conjugated polyketone reductase; (*C. parapsilosis*) (Hata, H. (990) 175)

11-Dehydrothromboxane B_2
Thromboxane B_2; 2,3-Dinorthromboxane B_2; Urinary thromboxane metabolite (Ciabattoni, G. (992) 66)

Reversed phase high performance liquid chromatography; Radioimmunoassay; Thromboxane A_2; Thromboxane B_2; 2,3-Dinorthromboxane B_2 (Patrignani, P. (992) 71)

Delayed fluorescence
Phosphorescence; Excited triplet state; Anisotropy; Fluorescence (Vanderkooi, J.M. (976) 1)

Reaction center; Photosynthesis; Bacterial photosynthesis; Magnetic field effect; (*Rb. sphaeroides*) (Goldstein, R.A. (977) 70)

Reaction center; Photosynthesis; Bacterial photosynthesis; Magnetic field effect; (*Rb. sphaeroides*) (Goldstein, R.A. (977) 78)

Delta variant
Unstable hemoglobin; Hemoglobin; δ-Thalassemia; DNA amplification; Sequencing; Peptide analysis (Codrington, J.F. (1009) 87)

Denaturation
Ribonuclease; Thermal unfolding; Trichloroacetic acid treatment; NMR; (Bovine pancreas) (Sagar, A.J. (995) 144)

Carbonic anhydrase; Refolding; Renaturation; Cobalt; Apoenzyme (Bergenhem, N. (998) 277)

Dendritic arborization
Ganglioside; Sialyllactotetraosylceramide; Protein bound sialic acid; Synaptogenesis; (Human) (Svennerholm, L. (1005) 109)

Dense body
Carbamoylpiperidinoalkane; *N*-Alkylnipecotoylpiperazine; Platelet aggregation inhibitor; Serotonin release inhibitor; Platelet factor 4 release inhibitor; Structure-activity relationship; α-Granule; Platelet plasma membrane (Dillingham, E.O. (990) 128)

Density fluctuation
Lipid bilayer; Phase transition; Interface active molecule; Cholesterol; Heterogeneity; Lateral compressibility (Cruzeiro-Hansson, L. (979) 166)

Deoxycarnitine
Carnitine–deoxycarnitine exchange; Myopathy; (Rat) (Sartorelli, L. (1006) 15)

Deoxycholate
Polyene antibiotic; Amphotericin B; Bile salt; Polydispersity; Spin label (Lamy-Freund, M.T. (981) 207)

2-Deoxy-D-glucose accumulation
2-Deoxy-D-glucose 6-phosphate accumulation; Hexose transport; 3-*O*-Methyl-D-glucose transport; (Rat adipocyte) (Thompson, K.A. (1011) 58)

2-Deoxy-D-glucose 6-phosphate accumulation
2-Deoxy-D-glucose accumulation; Hexose transport; 3-*O*-Methyl-D-glucose transport; (Rat adipocyte) (Thompson, K.A. (1011) 58)

2-Deoxy-D-glucose transport
Polyphosphate utilization; Sugar phosphorylation; ATP; (*K. marxianus*) (Schuddemat, J. (986) 290)

6-Deoxy-D-glucose
Glucose; Transport; Specificity; (*T. brucei*) (Eisenthal, R. (985) 81)

Deoxyhypusine
Eukaryotic initiation factor 4D; Polyamine; Deoxyhypusine hydroxylase; Hypusine; Posttranslational modification; (Eukaryote) (Abbruzzese, A. (997) 248)

Deoxyhypusine hydroxylase
Eukaryotic initiation factor 4D; Polyamine; Deoxyhypusine; Hypusine; Posttranslational modification; (Eukaryote) (Abbruzzese, A. (997) 248)

Deoxypyrimidine
Deoxyribonucleoside triphosphate pool; Hydroxyurea (Röttgen, V. (992) 349)

Deoxyribonuclease
Isozyme; Subunit structure; Isoelectric focusing; (Spleen lysosome); (Liver lysosome) (Liao, T.-H. (1007) 15)

Deoxyribonucleoside triphosphate pool
Deoxypyrimidine; Hydroxyurea (Röttgen, V. (992) 349)

Dephosphorylation
Ornithine decarboxylase; Phosphorylation; (*T. pyriformis*) (Lougovoi, C.P. (996) 70)

Dephosphorylation
Phosphotyrosyl-protein phosphatase; Phosphorylation; Acid phosphatase; (Wheat seedlings) (Cheng, H.-F. (998) 271)

Depolarization
Sodium; Pancreatic islet; Glucose; Tolbutamide; (Rat) (Ali, L. (1010) 283)

Depth dependent probe
Photolabeling; Single bilayer vesicle; Hydrophobic core; 9-Diazofluorene-2-butyric acid (Lala, A.K. (978) 333)

Derepression
Acid phosphatase; Kinetics; (*Y. lipolytica*) (Moran, A. (990) 288)

Derivative spectroscopy
Antibody–hapten interaction; Phosphorylcholine; Intrinsic fluorescence; Fluorescence quenching; Monoclonal antibody (Urbaneja, M.-A. (998) 85)

Bean storage protein; Circular dichroism; Fluorescence; Proteolysis; Quenching; Surface hydrophobicity (Deshpande, S.S. (998) 179)

Desaturase
Magnesium deficiency; Cell membrane fatty acid; Fatty acid; Essential fatty acid; (LLC-PK cell) (Mahfouz, M.M. (1006) 70)

Desaturation
Polyunsaturated fatty acid; Fatty acid uptake; Fatty acid oxidation; Chain elongation; Cardiac myocyte; (Rat heart) (Hagve, T.-A. (1001) 338)

Linoleic acid metabolism; *trans*-Fatty acid; α-Linolenic acid; Arachidonic acid; Dietary fat; Polyunsaturated fatty acid; (Rat) (Zevenbergen, J.L. (1002) 312)

5-Desaturation
6α-Hydroxylsterol; Sterol mutant; (*C. albicans*) (Shimokawa, O. (1003) 15)

Des-(B26–B30)-insulin
NMR, ^{1}H-; Two dimensional COSY (Hua, Q.-X. (994) 114)

Desensitization
Nicotinic acetylcholine receptor; Acetylcholine receptor; Ethanol; Cation flux; (*Torpedo* electroplax) (Forman, S.A. (987) 95)

Des(ethanolamine)-taurine^{16}-gramicidin A
Gramicidin A, [Tau^{16}]-; Single-channel conductance; Ion channel; Planar membrane (Roeske, R.W. (982) 223)

Desferrioxamine
Iron chelator; Liposome; Tumor cell; Erythroid differentiation; (Mouse) (Nastruzzi, C. (1013) 36)

Detergent
Photosystem I; P-700; Differential absorption coefficient; (*S. elongatus*) (Sonoike, K. (976) 210)

Platelet membrane; Cell lysis; Leakage; Component solubility; Electron microscopy; Aggregation; (Human blood) (Shiao, Y.-J. (980) 56)

Vesicle release; Amphiphile; Erythrocyte; Shape alteration (Hägerstrand, H. (982) 179)

ATPase, Ca^{2+}-; Enzyme stability; Poly(ethylene glycol); (Sarcoplasmic reticulum) (Welte, W. (984) 193)

Phospholipid vesicle; Critical micellar concentration; DSC; Fourier transform infrared spectroscopy; Freeze-fracture (Bayerl, T.M. (984) 214)

Liposome; DNA; Transfection; (Mouse L-cell) (Pinnaduwage, P. (985) 33)

Crystal structure; Zwitterion; X-ray diffraction (Egner, U. (992) 404)

Human interferon-β1; Oligomer; Monomer; Inactivation; Reactivation (Utsumi, J. (998) 167)

Detergent activation
ATPase; Plasma membrane; Yeast; Vesicle sidedness (Monk, B.C. (981) 226)

Detergent extraction
N-Formyl peptide receptor; GTP binding protein; Phospholipid vesicle; Reconstitution (Cupo, J.F. (982) 31)

Deuterated spin label
NAD^+ binding; NAD^+ spin label; Spin–spin interaction; Glyceraldehyde-3-phosphate dehydrogenase; Dehydrogenase mechanism (Wilder, R.T. (997) 65)

Deuteration
Electron spin polarization; ESR; Reaction center; Photosynthesis; (*Rb. sphaeroides*) (Feezel, L.L. (974) 149)

NAD(P)^{2}H; Dehydrogenase stereospecificity; NMR; EI-MS (Ottolina, G. (998) 173)

Deuterium oxide
Liposome; Ultrasound; ESR; Phase transition (Ma, L.D. (978) 283)

Development
Galactosyltransferase; Cortisone; Phorbol ester; (Rat small intestine) (Ozaki, C.K. (991) 243)

Glutathione *S*-transferase; (Human liver) (Strange, R.C. (993) 186)

6-Phosphofructokinase; Fructose 2,6-bisphosphate; Alveolar type II cell; (Rat lung) (Heesbeen, E.C. (1002) 388)

Lipid transport; Expression; Cholesterol (Levin, M.S. (1003) 293)

Spherulation; Spherulin 4; Plasma membrane protein; mRNA; (*P. polycephalum*) (Savard, L. (1007) 264)

RNA synthesis; Formycin inhibition; Starfish embryo; Blastulation; (*A. pectinifera*) (Isomura, H. (1007) 343)

Storage protein gene; DNA binding protein; *Trans*-acting factor; DNA-protein complex; (*S. peregrina*) (Kim, J.W. (1008) 79)

Dexamethasone
Lung surfactant; Fatty acid; Phosphatidylcholine; Phosphatidylglycerol; Fetal lung maturation; (Fetal rat lung) (Xu, Z.-x. (1005) 209)

Dextran
Phase partition; Poly(ethylene glycol); Lipid asymmetry; Surface charge (Tilcock, C. (986) 167)

Dextran sulfate
Amyloid; Amyloidosis; Glycosaminoglycan; Heparin (Hamazaki, H. (998) 231)

Diabetes
Glucose oxidation; Heart; Fatty acid; Carnitine acyltransferase; Cardiac function (Wall, S.R. (1006) 97)

Diabetes mellitus
Activity; Fluorescence; Nonenzymatic glycosylation (Hall, P.K. (993) 217)

Amylin gene (Cooper, G.J.S. (1014) 247)

Diacylglycerol
Membrane splitting; Protein kinase C; Red blood cell; Tumor promoter; Phorbol ester; 12-*O*-Tetradecanoylphorbol 13-acetate (Fisher, K.A. (982) 237)

Diacylglycerol lipase
RHC 80267; Inositol phosphate production; (Rat gastric parietal cell) (Pfeiffer, A. (1001) 191)

1,2-Diacylglycerol
Inositol phosphate; Compensatory renal growth; Extracellular calcium ion; (Rat) (Banfić, H. (1002) 273)

cyclic AMP; Inositol 1,4,5-trisphosphate; Phorbol ester; Phosphate transport; (Opossum kidney cell) (Quamme, G. (1013) 159)

1,2-Diacylglycero-3-phosphoethanolamine
Transacylation; Acyl-CoA : lysophospholipid acyltransferase; Ethanolamine plasmalogen; Polyunsaturated fatty acid; (Rat brain microsome) (Masuzawa, Y. (1005) 1)

Diacylhydroxylamine
Mechanism based inhibition; Proteinase; Lossen reaction (Demuth, H.-U. (996) 19)

Diacytosis
Asialoglycoprotein; Receptor structure; (Rabbit hepatocyte); (Rat hepatocyte) (Chang, T.-M. (1014) 229)

Diadenine nucleotide
Cell function; Parenchymal cell; (Rat liver) (Busshardt, E. (1010) 151)

Diamide
Macrophage recognition; Periodate oxidation; Disulfide formation; Sulfhydryl oxidation; (Erythrocyte membrane) (Beppu, M. (979) 35)

Phospholipid asymmetry; ATP-dependent translocase; Aminophospholipid; (Human erythrocytes) (Middelkoop, E. (981) 151)

Lipid–protein interaction; Phosphatidylserine; Lipid asymmetry; Calpain; Cytoskeleton; (Human platelet) (Comfurius, P. (983) 212)

Diamine oxidase
Glycosaminoglycan; Small bowel; (Rat) (D'Agostino, L. (993) 228)

Diastereotopic specificity
Phosphoglucoisomerase; Isotopic discrimination (Liemans, V. (998) 111)

9-Diazofluorene-2-butyric acid
Photolabeling; Single bilayer vesicle; Hydrophobic core; Depth dependent probe (Lala, A.K. (978) 333)

Diazoxide
Cardiac muscle; Tolbutamide; Glibenclamide; Action potential; Potassium ion channel; ATP sensitive potassium ion channel; (Rat) (Faivre, J.-F. (984) 1)

1,2-Dibromoethane
Glutathione; HPLC; Uncoupler; (Rat liver mitochondria) (Botti, B. (992) 327)

Dicarboxylate carrier mechanism
Enzyme kinetics; Substrate inhibition; Liposome; Mitochondrion; (Rat liver) (Indiveri, C. (977) 194)

Dicarboxylate carrier reconstitution
Enzyme kinetics; Liposome; Mitochondrion; (Rat liver) (Indiveri, C. (977) 187)

Dicarboxylate transport
Cotransport; Succinate uptake; Placental epithelium; (Human) (Ogin, C. (980) 248)

Dicarboxylic acid
Fatty acyl-CoA oxidase; Peroxisome; Beta oxidation; Substrate inhibition (Poosch, M.S. (1006) 291)

Dicarboxylic acid beta oxidation
Beta oxidation; Peroxisome; Mitochondrion; (Rat liver) (Suzuki, H. (990) 25)

Dichloroaminophenol iloprost
Prostacyclin; Prostaglandin; Fluorescent probe (Tsai, A.-l. (993) 74)

2,4-Dichlorobenzyl thiocyanate
β-Tubulin; Antimitotic drug; Sulfhydryl group; Alkylation (Bai, R.-l. (994) 12)

***cis*-Dichlorodiammineplatinum(II)**
α_2-Antiplasmin; Serpin; Plasminogen; Proteinase inhibitor (Geary, W.A. (994) 1)

Dicyclohexylcarbodiimide
NADH : ubiquinone oxidoreductase; Proton transfer; Membrane potential; Submitochondrial particle; (Bovine heart) (Vuokila, P.T. (974) 219)

Dielaidoylphosphatidylethanolamine
Phase behavior; Hexagonal H_{II} phase; *n*-Alkanol; NMR, ^{31}P-; Spectrophotometry (Veiro, J.A. (979) 251)

Dielectric behavior
Membrane capacitance; (Mouse lymphocyte); (Mouse erythrocyte) (Asami, K. (1010) 49)

Dienoic lipid
DSC; Mixed acid; Phosphatidylcholine, mixed acid; Cholesterol; Model membrane (Keough, K.M.W. (983) 51)

Diet
Linoleic acid; Sialyl receptor; (Rat platelet) (Bolton-Smith, C. (1005) 183)

Dietary cholesterol
Bile acid synthesis; Cholesterol concentration; (Rat); (Hepatocyte) (Sutton, C.M. (1001) 210)

Dietary fat
Phosphatidylcholine; Phospholipid biosynthesis; Phosphocholine-transferase; Phosphatidylethanolamine methyltransferase; (Rat) (Hargreaves, K.M. (1001) 262)

Linoleic acid metabolism; *trans*-Fatty acid; α-Linolenic acid; Arachidonic acid; Desaturation; Polyunsaturated fatty acid; (Rat) (Zevenbergen, J.L. (1002) 312)

Prostaglandin metabolism; Prostaglandin I_3; (Marmoset monkey) (Abeywardena, M.Y. (1003) 161)

Dietary fatty acid
Membrane fluidity; Lipid–protein interaction; ESR; Brush-border membrane vesicle; Lipid composition; (Porcine small intestine) (Christon, R. (980) 77)

Intestinal transport; Polyunsaturated fatty acid; Saturated fatty acid; Ileum; Jejunum; (Rat) (Thomson, A.B.R. (1001) 302)

Fluorescence anisotropy; Membrane fluidity; Platelet activation; Thromboxane; (Rat platelet) (Heemskerk, J.W.M. (1004) 252)

Glycerolipid metabolism; Fatty acid; Icosanoid; PAF; (Rat kidney) (Yeo, Y.K. (1006) 9)

Dietary modification
Phospholipid acyl chain; Ethanolamine glycerophospholipid; Choline glycerophospholipid; Acyl chain composition (Yeo, Y.K. (1001) 25)

Di(2-ethylhexyl) phthalate
Plasticizer; Calcium ion transport; Adenine nucleotide translocator; Mitochondrion; (Rat liver) (Kora, S. (985) 286)

Diethyl pyrocarbonate
Fructose-1,6-bisphosphatase; Woodward's reagent K; Thioredoxin; Organic solvent; Chaotropic anion (Prat-Gay, G. (973) 457)

Glutamate dehydrogenase; Lysine residue; Chemical modification; (*C. pyrenoidosa*) (Shatilov, V.R. (994) 222)

Differential absorption coefficient
Photosystem I; P-700; Detergent; (*S. elongatus*) (Sonoike, K. (976) 210)

Differential affinity labeling
Sucrose carrier; Sucrose transport; Plant plasmalemma; Plant plasma membrane; Protein, 42 kDa; (Sugar beet) (Gallet, O. (978) 56)

Differential labeling
Glucose transport; *N*-Ethylmaleimide; Glucose carrier sulfhydryl; (Human erythrocyte) (May, J.M. (986) 207)

Differential scanning calorimetry
Phospholipid; Cholesterol; Thermodynamics (Bach, D. (979) 11)

Differentiation
Amino acid transport; Macrophage; Leukemia cell; Lipopolysaccharide; (Mouse) (Sato, H. (983) 259)

UDPglucose : poriferasterol glucosyltransferase; (*P. polycephalum*) (Murakami-Murofushi, K. (992) 412)

Vitamin A; Retinoid; Retinoic acid (Renstrom, B. (998) 69)

cyclic AMP; Mastocytoma; c-*fos*; c-*myc*; Gene expression; (Mouse cell) (Goulding, M.D. (1007) 99)

Histone $H1^0$; Protein evolution; Protein characterization; (Maize root) (Srebreva, L. (1008) 346)

Histone; Transcription; Myoblast; Gene regulation; (Rat) (Larson, D.E. (1009) 177)

Myogenesis; polyphosphatidylinositol; Cell–cell recognition; Lithium ion; Inositol (Hausman, R.E. (1013) 92)

Diffusion
Membrane; Ion channel; Electrophoresis; Neuromuscular junction; Morphogenesis (Fromherz, P. (986) 341)

Diffusion barrier
Free sugar accumulation; Submembrane structure (Widdas, W.F. (979) 221)

Diffusion potential
Membrane permeability; Voltage-sensitive dye; (Rat liver plasma membrane); (Basolateral vesicle); (Canalicular vesicle) (Thalhammer, T. (979) 371)

Difluoromethylornithine
Dimethylhydrazine; Cancer; N^1-Acetylspermidine; Spermidine N^1-acetyltransferase; (Rat colon) (Halline, A.G. (992) 106)

Digalactosyldiacylglycerol
Phosphatidylcholine; Permeability; Unilamellar vesicle; Thylakoid; Fluidity (Webb, M.S. (984) 41)

Monogalactosyldiacylglycerol; (*D. acidophila*) (Della Greca, M. (1004) 271)

Digitonin
Heavy metal cation; Divalent cation; Granule secretion; Calcium ion; Polymorphonuclear leukocyte; Sulfhydryl oxidation; (Human neutrophil) (Sandborg, R.R. (1010) 330)

Platelet function; Platelet permeabilization; (Human) (Lineberger, B. (1012) 36)

Platelet microtubule; Platelet permeabilization; (Human) (Berry, S. (1012) 46)

Dihydrofolate reductase
(Mouse liver) (Kyner, D. (993) 56)

Pyrimethamine; Molecular model; (*E. coli*) (Sansom, C.E. (995) 21)

Dihydrolipoate
Lipid peroxidation; α-Tocopherol; Antioxidant; Microsome; (Rat) (Scholich, H. (1001) 256)

DL-Dihydrolipoate
Ferritin; Iron removal (Bonomi, F. (994) 180)

3,4-Dihydroxybutyl 1-phosphonate
Phosphatidylglycerol phosphate; Phosphonate analog; Cardiolipin synthesis; (*B. subtilis*) (Lacombe, C. (1005) 103)

7,22-Dihydroxycholesterol
Cytotoxicity; (22*R*)-22-Hydroxycholesta-4,6-dien-3-one; Microsome (Boberg, K.M. (1004) 321)

Dihydroxyindole
Adrenochrome rearrangement; Adrenolutin; Adrenochrome dimer; Dihydroxyisatin; Metal ion; Adrenaline metabolism (Palumbo, A. (990) 297)

Dihydroxyindole oxidation
Melanogenesis; Dihydroxyindole radical; Indolequinone; Pulse radiolysis (Lambert, C. (993) 12)

Dihydroxyindole radical
Melanogenesis; Dihydroxyindole oxidation; Indolequinone; Pulse radiolysis (Lambert, C. (993) 12)

Dihydroxyisatin
Adrenochrome rearrangement; Adrenolutin; Dihydroxyindole; Adrenochrome dimer; Metal ion; Adrenaline metabolism (Palumbo, A. (990) 297)

3,4-Dihydroxymandelic acid
Tyrosinase; Oxidative decarboxylation; 3,4-Mandeloquinone; Quinone methide; Pulse radiolysis (Bouheroum, M. (998) 57)

1,25-Dihydroxyvitamin D-3
Alkaline phosphatase; Calmodulin; Calcium ionophore; Calcium metabolism; (Rat organs) (Komoda, T. (990) 165)

Muscle; Myoblast; Myoblast protein synthesis; Calcium ion binding protein (Drittanti, L.N. (1012) 16)

Myoblast; DNA synthesis; Cell proliferation; Calmodulin; (Chick embryo muscle cell) (Drittanti, L. (1014) 112)

Osteoblast; Collagen degradation; Plasminogen activator; Collagenase; Metalloproteinase; Tissue inhibitor of metalloproteinases; (Mouse) (Thomson, B.M. (1014) 125)

Diisopropyl fluorophosphate, ^{3}H-labeled
Acetylcholinesterase; 1-Bromo-2-[^{14}C]pinacolone; Active site directed inactivator; 5-Trimethylammonio-2-pentanone (Cohen, S.G. (997) 167)

Dimer/oligomer
Bilirubin; Poly(L-lysine); Induced circular dichroism; Absorption/circular dichroism spectrum; Alpha helix conformation (Bouvier, M. (991) 303)

Dimethylethanolamine
Polyunsaturated phospholipid; Phosphatidylcholine; Intravenous infusion; (Rat) (Alvaro, D. (1006) 116)

Dimethylhydrazine
Colon cancer; Corn oil; N^1-Acetylspermidine; Spermidine N^1-acetyltransferase; (Rat colon) (Halline, A.G. (990) 280)

Cancer; N^1-Acetylspermidine; Spermidine N^1-acetyltransferase; Difluoromethylornithine; (Rat colon) (Halline, A.G. (992) 106)

Dimethylsuberimidate
Phosphatidylethanolamine; Phase transition; Crosslinking; Fluorescence anisotropy, steady-state; *cis*-Parinaric acid (Roth, M.R. (986) 217)

Dimethyl sulfoxide
ATPase, Na^+/K^+-; Phosphatase, K^+-; Phosphate; Water activity (Robinson, J.D. (994) 95)

ATPase, Na^+/K^+-; Phosphatase, K^+-; pH; Metal (Robinson, J.D. (997) 41)

Niemann-Pick C Disease; LDL; Lipoprotein cholesterol (Mackie, E.J.B. (1006) 219)

Dimycoloyltrehalose
Glycolipid; (*R. rhodochrous*) (De Almeida, E.T. (1005) 45)

Dimyristoylphosphatidic acid
Local anesthetic; Phase transition; Partition coefficient; Surface charge; Phospholipid vesicle (Kaminoh, Y. (987) 63)

Dimyristoylphosphatidylcholine
Bacteriorhodopsin; Freeze-fracture; Lateral phase separation; NMR, ^{31}P-; Protein aggregation; Electron microscopy; (*H.halobium*) (Sternberg, B. (980) 117)

Lipopeptide antibiotic; A21978C; LY146032; Calcium dependence; Daptomycin (Lakey, J.H. (985) 60)

Polyene antibiotic; Filipin; Phosphatidylcholine; Large unilamellar vesicle; Circular dichroism (Milhaud, J. (987) 193)

S-(2,4-Dinitrophenyl)glutathione uptake
Membrane vesicle; Transport; ATP stimulation; (Rat liver) (Kunst, M. (983) 123)

Dinophysistoxin-1
Okadaic acid; Tumor promoter; Prostaglandin E_2; (Rat peritoneal macrophage) (Ohuchi, K. (1013) 86)

2,3-Dinorthromboxane
Immunoreactive thromboxane; Thromboxane; Vascular risk factor; (Urine) (Lorenz, R.L. (993) 259)

2,3-Dinorthromboxane B_2
Thromboxane B_2; 11-Dehydrothromboxane B_2; Urinary thromboxane metabolite (Ciabattoni, G. (992) 66)

Reversed phase high performance liquid chromatography; Radioimmunoassay; Thromboxane A_2; Thromboxane B_2; 11-Dehydrothromboxane B_2 (Patrignani, P. (992) 71)

Dioctanoylglycerol
Arachidonic acid metabolism; Calcium ion, extracellular; Calcium ion, intracellular; Protein kinase C; (Human platelet) (Ozaki, Y. (1012) 87)

Dioleoylphosphatidylcholine bilayer
Water/lipid system; Lamellar phase; Hexagonal H_{II} phase; Rippled phase; X-ray diffraction (Bradshaw, J.P. (987) 104)

Dioleoylphosphatidylethanolamine; Rippled phase; Neutron diffraction (Bradshaw, J.P. (987) 111)

Dioleoylphosphatidylethanolamine
Hexagonal H_{II} phase; Trehalose; DSC; Fourier transform infrared spectroscopy; X-ray diffraction (Wistrom, C.A. (984) 238)

Dioleoylphosphatidylcholine bilayer; Rippled phase; Neutron diffraction (Bradshaw, J.P. (987) 111)

4,5-Dioxovalerate
5-Aminolevulinate dehydratase; Chlorophyll biosynthesis; C_5 pathway; Protochlorophyllide; (*Scenedesmus*) (Kotzabasis, K. (977) 309)

Dipalmitoylphosphatidylcholine
Targeting chemotherapy; Antitumor agent; Adriamycin; Liposome stability; Cholesterol (Tomita, T. (978) 185)

X-ray diffraction; Lipid bilayer; Membrane structure; Peptide–lipid interaction; Alpha-helical peptide (Huschilt, J.C. (979) 139)

Model membrane; Free fatty acid; Resonance energy transfer; Fourier transform infrared spectroscopy (McKersie, B.D. (982) 156)

Liposome; Ascorbate oxidase; Protein–lipid interaction; Electron microscopy (Mossa, G. (986) 310)

Phospholipid; Squeeze-out; Gel-to-liquid crystal transformation; Surface activity; Fluorescence polarization (Egberts, J. (1002) 109)

Dipeptide
Lipid peroxidation; Glutathione; L-Carnosine; Histidine; (Posterior subcapsular cataract) (Babizhayev, M.A. (1004) 363)

Dipeptide Cbz-Gly-Phe-NH_2
Glucose transporter; Glucose 6-phosphate; Metallo-endoproteinase substrate; Phenylarsine oxide; Membrane reconstitution; (Rat adipocyte); (Human erythrocyte) (Wheeler, T.J. (979) 331)

Diphenylhexatriene
Propionic acid-diphenylhexatriene; Fluorescence probe; Membrane probe; Fatty acid; Fatty acid binding protein; Albumin (Trotter, P.J. (982) 131)

1,6-Diphenyl-1,3,5-hexatriene
Cholesterol; Frequency domain fluorometry; Lifetime distribution; Microheterogeneity (Fiorini, R. (1006) 198)

Diphosphatidylglycerol
Cardiolipin; NMR, ^{31}P-; Non-lamellar phase; Hexagonal H_{II} phase (Sankaram, M.B. (980) 389)

Diphtheria toxin
Immunoliposome; Acid sensitivity; Endosome; Endocytosis (Collins, D. (987) 47)

Asialoglycoprotein; Hybrid toxin; Toxin translocation; Receptor (Chang, T.-M. (1013) 239)

Dipolar interaction
Lipid bilayer; Membrane conductance; Electric field effect (Robello, M. (982) 173)

Dipyridamole
Anion transport; Erythrocyte; Band 3 protein (Legrum, B. (979) 193)

Discoidal complex
Apolipoprotein E; Lecithin–cholesterol acyltransferase; Lipoprotein conversion (Gong, E.L. (1006) 317)

Discoidin I
Fluorescence spectroscopy; Calcium binding; Sugar binding; Sugar binding site; (*D. discoideum*) (Valencia, A. (990) 93)

Dissociation-association equilibrium
ATPase, Na^+/K^+-; Quaternary structure; Laser light scattering; (Canine kidney) (Hayashi, Y. (983) 217)

Distribution
Protein kinase, cyclic AMP dependent; cyclic AMP dependence; Lens; (Bovine eye) (Hur, K.C. (1010) 56)

Disulfide bond
Glycolipid transfer protein; Sulfhydryl group; Intramolecular disulfide bond; Oligomerization; Cupric ion; (Pig brain) (Abe, A. (985) 38)

Glycolipid transfer protein; Intramolecular disulfide bond; Sulfhydryl group (Abe, A. (985) 45)

α_2HS-glycoprotein; Glycoprotein; (Human plasma protein) (Araki, T. (994) 195)

Disulfide bridge
Hevein; Wheat germ agglutinin; Circular dichroism (Rodríguez-Romero, A. (998) 21)

Hemocyanin; Cooperativity; (*P. interruptus*) (Neuteboom, B. (998) 126)

Disulfide formation
Macrophage recognition; Periodate oxidation; Sulfhydryl oxidation; Diamide; (Erythrocyte membrane) (Beppu, M. (979) 35)

Dithiol compound
Mevalonate 5-diphosphate decarboxylase; (Chicken liver) (Alvear, M. (994) 7)

Dithiothreitol
Coupling factor; Epsilon subunit; Isozyme heterogeneity; (Spinach); (*C. reinhardtii*) (Duhe, R.J. (974) 294)

Diuron
Herbicide; Photosystem II; Photosynthesis; (*C. reinhardtii*) (Galloway, R. (975) 66)

Diuron binding
Photosynthesis; Thylakoid membrane; Photosystem II; Oxygen evolution (Chow, W.S. (973) 105)

Divalent cation
ATPase, Na^+/K^+-; ATP phosphohydrolase; Ouabain binding; Rubidium-86 uptake; (Guinea-pig heart) (Hagane, K. (982) 279)

Electrofusion; Hypo-osmolar medium; Osmotic pressure shock; Sorbitol; Albumin; Hybrid; (Mammalian cell) (Schmitt, J.J. (983) 42)

Proton; Calcium ion, extracellular; Hemolytic agent; Membrane damage; Zinc ion, extracellular; Plasma membrane (Bashford, C.L. (983) 56)

Tryptase; Histamine; (Human mast cell) (Alter, S.C. (991) 426)

Manganese; Nitrate uptake; Glutamine synthetase; Enzyme regulation; (*A. chroococcum*) (Ruiz, M.T. (993) 36)

Heavy metal cation; Granule secretion; Digitonin; Calcium ion; Polymorphonuclear leukocyte; Sulfhydryl oxidation; (Human neutrophil) (Sandborg, R.R. (1010) 330)

Divalent cation activation
Potassium ion channel; Voltage activation; Hydrogen ion activation; Cation selectivity; Pancreatic islet cell (Tabcharani, J.A. (982) 62)

DNA
Liposome; Detergent; Transfection; (Mouse L-cell) (Pinnaduwage, P. (985) 33)

Chromatin–retinol interaction; Vitamin A; (V79 Chinese hamster cell line) (Ferrari, N. (1007) 30)

recombinant DNA; Shuttle plasmid; Luminescence; Luciferase gene; Gene expression; (*V. harveyi* gene); (*B. subtilis*); (*E. coli*) (Karp, M. (1007) 84)

RNA editing; Kinetoplast DNA; Maxicircle; Minicircle; Transcription; (Trypanosome mitochondria) (Benne, R. (1007) 131)

Singlet molecular oxygen; Single strand breaks; Plasmid DNA; Bacteriophage DNA; Transforming activity; (*E. coli*) (Di Mascio, P. (1007) 151)

Porphyrin–RNA interaction; NMR; tRNA structure (Birdsall, W.J. (1007) 176)

Mutagenesis; SOS response; In vitro replication; Ultraviolet irradiation; (*E. coli*); (ColE1 plasmid) (Casaregola, S. (1008) 45)

Heat shock protein; Genomic DNA; Operon; *dnaK-dnaJ* deletion mutant; (*E. coli*) (Ohki, R. (1009) 94)

Thymine dimer; Ultraviolet irradiation; Thermophile (Yein, F.S. (1009) 110)

DNA adduct
Lipid peroxidation; Nuclear membrane; Nuclear macromolecule (Vaca, C.E. (1001) 35)

DNA amplification
Promoter mutation; Fetal globin gene; Transient expression; DNA sequencing; (K562 cell); (Human cell line) (Lanclos, K.D. (1008) 109)

Delta variant; Unstable hemoglobin; Hemoglobin; δ-Thalassemia; Sequencing; Peptide analysis (Codrington, J.F. (1009) 87)

DNA binding protein
Chloroplast; Cyanobacterium; Protein characterization; (*Synechococcus*); (*A. quadruplicatum*) (Crevel, G. (1007) 36)

Development; Storage protein gene; *Trans*-acting factor; DNA-protein complex; (*S. peregrina*) (Kim, J.W. (1008) 79)

Herpes simplex virus; ssDNA; Protein ICP8; ICP8 (Leinbach, S.S. (1008) 281)

Nucleoid; Histone-like protein; Enzyme purification; (*B. subtilis*) (Salti, V. (1009) 161)

DNA chain elongation
Nucleoid; Nuclear matrix; DNA synthesis (Collins, J.M. (1009) 264)

DNA conformation
DNA sequence; Sequence pattern (Nussinov, R. (1008) 329)

DNA cytotoxicity
DNA damage; DNA-protein crosslink; Nitracrine; (Human cells); (HeLa cell culture) (Szmigiero, L. (1008) 339)

DNA damage
Nuclease; DNA endonuclease; DNA repair; Ultraviolet light; (Spinach) (Doetsch, P.W. (1007) 309)

DNA cytotoxicity; DNA-protein crosslink; Nitracrine; (Human cells); (HeLa cell culture) (Szmigiero, L. (1008) 339)

DNA–drug interaction
Caffeine; DNA unwinding; Intercalation (Tornaletti, S. (1007) 112)

Lexitropsin; Circular dichroism; DNA sequence specificity; Netropsin ligand binding (Burckhardt, G. (1009) 11)

DNA endonuclease
Nuclease; DNA repair; DNA damage; Ultraviolet light; (Spinach) (Doetsch, P.W. (1007) 309)

DNA fractionation
DNA renaturation; Ethidium bromide (Lau, P.P. (1007) 73)

DNA fragment
Histone subtype; HPLC; Protein refolding; (Rat liver) (Tchouatcha-Tchouassom, J.C. (1009) 121)

DNA integration
Transformation; ribosomal DNA sequence; Nontranscribed spacer; Nonhomologous recombination; (*N. crassa*) (Russell, P.J. (1008) 243)

DNA methylation
Gene expression; Restriction endonuclease; DNAase I hypersensitivity; Southern blotting; Adenovirus type 12-transformed cell (Bartnik, E. (1007) 228)

c-*myc* oncogene; DNA rearrangement (Bianchi, N.O. (1007) 350)

5-Azacytidine; Gene expression; Thymidine kinase promoter; Hemimethylated *Eco*RI site; (HSV *tk* gene); (Thymidine kinase deficient human cell) (Tasseron-de Jong, J. (1008) 62)

Transcriptional control; Growth hormone promoter; (Rat) (Gaido, M.L. (1008) 234)

Dwarf mutant; 5-Azacytidine; (*Zea mays*) (Sano, H. (1009) 35)

DNA methylation, de novo
DNA transfection; 5-Azacytidine; HSV *tk* gene; Gene inactivation; (Human cell line) (Tasseron-de Jong, J.G. (1007) 215)

DNA oxidation
Guanyl radical; Antioxidant; DNA repair; Free radical (Jovanovic, S.V. (1008) 39)

DNA polymerase
Phospholipid; Cardiolipin (Yoshida, S. (1007) 61)

Protein–DNA interaction; DNA polymerization; Primer; (Thermoacidophilic archaebacteria) (Bukhrashvili, I.S. (1008) 102)

Nucleotide analog; Chain terminator; Sugar moiety; DNA synthesis inhibition; (*S. acidocaldarius*); (Archaebacterium) (Chinchaladze, D.Z. (1008) 113)

Ribonucleotide reductase; Thymidine kinase; Cell cycle; (Mouse mastocytoma) (Schaer, J.-C. (1009) 90)

DNA polymerase β
mRNA level; (Rat liver) (Nowak, R. (1008) 203)

DNA polymerase stimulation
Lactate dehydrogenase; ssDNA binding protein; (*X. laevis* oocyte) (Kaiserman, H.B. (1008) 23)

DNA polymerization
Protein–DNA interaction; DNA polymerase; Primer; (Thermoacidophilic archaebacteria) (Bukhrashvili, I.S. (1008) 102)

DNA-protein complex
Development; Storage protein gene; DNA binding protein; *Trans*-acting factor; (*S. peregrina*) (Kim, J.W. (1008) 79)

DNA-protein crosslink
DNA damage; DNA cytotoxicity; Nitracrine; (Human cells); (HeLa cell culture) (Szmigiero, L. (1008) 339)

DNA–protein interaction
Chromatin; Evolution (Avramova, Z. (1007) 109)

DNA rearrangement
c-*myc* oncogene; DNA methylation (Bianchi, N.O. (1007) 350)

DNA renaturation
DNA fractionation; Ethidium bromide (Lau, P.P. (1007) 73)

DNA repair
Nuclease; DNA endonuclease; DNA damage; Ultraviolet light; (Spinach) (Doetsch, P.W. (1007) 309)

DNA oxidation; Guanyl radical; Antioxidant; Free radical (Jovanovic, S.V. (1008) 39)

DNA replication
Origin of replication; Eukaryotic DNA replication (Umek, R.M. (1007) 1)

Fork displacement rate; Temperature sensitivity; (Chinese hamster ovary cells) (Wong, R.S.L. (1007) 224)

Plasmid RK2; Broad host range; *trfA* gene; (*E. coli*); (*P. aeruginosa*); (*P. putida*) (Shingler, V. (1007) 301)

DNA sequence
Apolipoprotein A-IV; Amino acid sequence; HDL; Lecithin–cholesterol acyltransferase; Sequence heterogeneity (Yang, C.-y. (1002) 231)

Bacteriophage $\alpha 3$; Origin mutant; Point mutation; Secondary structure (Kodaira, K.-I. (1007) 359)

snRNA; Genetic evolution; U3 gene; U3 pseudogene; (Human) (Yuan, Y. (1008) 14)

Finger structure; Gene A protein; (*Microviridae*) (Kodaira, K.-I. (1008) 123)

DNA conformation; Sequence pattern (Nussinov, R. (1008) 329)

Microsome; Epoxide hydrolase; Gene; (Human) (Wilson, N.M. (1008) 357)

Cytochrome $P\text{-}450_{BM\text{-}1}$; Amino acid sequence; *P*-450 cloning (He, J.-S. (1009) 301)

DNA sequence analysis
Hypobetalipoproteinemia; Transcriptional regulation; Apolipoprotein B deficiency; (Human) (Ross, R.S. (1004) 29)

DNA sequence specificity
Lexitropsin; Circular dichroism; Netropsin ligand binding; DNA–drug interaction (Burckhardt, G. (1009) 11)

DNA sequencing
Promoter mutation; DNA amplification; Fetal globin gene; Transient expression; (K562 cell); (Human cell line) (Lanclos, K.D. (1008) 109)

DNA single strand break
Ultraviolet irradiation; Cytosine arabinoside; (Human fibroblast cell) (Ahnström, G. (1007) 357)

Poly(ADP-ribose) metabolism; Cell killing; Hydrogen peroxide; (Chinese hamster ovary cell) (Cantoni, O. (1014) 1)

DNA synthesis
Nuclear matrix; Okazaki fragment; (*P. polycephalum*) (Shioda, M. (1007) 254)

Systemic lupus erythematosus; RNA synthesis; Autoantibody; (Human) (Van Helden, P.D. (1009) 137)

Nucleoid; Nuclear matrix; DNA chain elongation (Collins, J.M. (1009) 264)

Interferon γ; Interleukin 1; Cartilage degradation; Proteinase; (Human chrondrocyte) (Andrews, H.J. (1012) 128)

Lipid peroxidation; Mitogenic response; Splenocyte; Thymocyte; (Mouse) (Oarada, M. (1012) 156)

Non histone protein; Protein degradation; Nuclear translocation; Epidermal growth factor; (Monkey kidney cell) (Polet, H. (1013) 279)

Nb_2 node lymphoma cell; Prolactin; Amiloride; Protein synthesis; RNA synthesis (Rillema, J.A. (1014) 78)

Myoblast; 1,25-Dihydroxyvitamin D-3; Cell proliferation; Calmodulin; (Chick embryo muscle cell) (Drittanti, L. (1014) 112)

DNA synthesis inhibition
DNA polymerase; Nucleotide analog; Chain terminator; Sugar moiety; (*S. acidocaldarius*); (Archaebacterium) (Chinchaladze, D.Z. (1008) 113)

DNA transfection
5-Azacytidine; DNA methylation, de novo; HSV *tk* gene; Gene inactivation; (Human cell line) (Tasseron-de Jong, J.G. (1007) 215)

DNA unwinding
Caffeine; Intercalation; DNA–drug interaction (Tornaletti, S. (1007) 112)

cDNA
Superoxide dismutase; Manganese enzyme; Precursor enzyme; Post-translational processing (Wispe, J.R. (994) 30)

Lung surfactant; mRNA; Type II cell (Emrie, P.A. (994) 215)

Transcriptional control; Insulin; Glucose-6-phosphate dehydrogenase; (Rat liver) (Katsurada, A. (1006) 104)

Hormone sensitive lipase; Adipose tissue; mRNA; Lipase; (Human) (Holm, C. (1006) 193)

Cholesterol esterase (Kissel, J.A. (1006) 227)

Prolactin-like cDNA; Molecular cloning; Nucleotide sequence; (Bovine placenta) (Tanaka, M. (1008) 193)

Calcium binding domain; E-F hand structure; Calcium binding protein; (Mouse poly(A)$^+$ RNA) (Kageyama, H. (1008) 255)

cDNA cloning
Nuclear envelope; Lamin A; Lamin C; Nucleotide sequence; Amino acid sequence homology; (Mouse cDNA library) (Riedel, W. (1008) 119)

Protein phosphatase; Peptide mapping; Amino acid sequence; Nucleic acid sequence; (Rabbit liver) (Cohen, P.T.W. (1008) 125)

Nucleotide sequence; Amine oxidase gene; Topogenic signal; Yeast microbody; (*H. polymorpha*) (Bruinenberg, P.G. (1008) 157)

Growth hormone; Pregrowth hormone; Nucleotide sequence; Gene expression; (Ovine pituitary) (Warwick, J.M. (1008) 247)

Protein phosphatase; Calmodulin; Amino acid sequence; Nucleotide sequence; (Rabbit brain) (Da Cruz e Silva, E.F. (1009) 293)

cDNA expression
NADH–cytochrome b_5 reductase; α-Thrombin; (*E. coli*); (Human gene) (Shirabe, K. (1008) 189)

Recombinant DNA; Growth hormone cDNA; Gene dosage effect; (*E. coli* vector); (Human gene) (Yamakawa, M. (1009) 156)

cDNA sequence
Growth hormone; Amino acid sequence; Sequence homology; (Carp, *C. carpio*) (Chao, S.-C. (1007) 233)

β-Galactoside binding; Lectin; IgE binding protein; Superfamily; (Human) (Hirabayashi, J. (1008) 85)

mRNA; Lipoprotein lipase; (Avian); (Adipose); (Heart) (Cooper, D.A. (1008) 92)

Leucine-rich glycoprotein; Amino acid sequence; Sequence homology; (Mouse cDNA); (Human cDNA) (Setoguchi, M. (1008) 213)

mitochondrial DNA
tRNA gene; lysine tRNA; (Wheat) (Joyce, P.B.M. (1008) 355)

Mitochondrial myopathy; S_1 nuclease; Polymerase chain reaction; Heteroduplex; Oligonucleotide primer (Tanaka-Yamamoto, T. (1009) 151)

***dnaK-dnaJ* deletion mutant**
Heat shock protein; Genomic DNA; Operon; DNA; (*E. coli*) (Ohki, R. (1009) 94)

recombinant DNA
Pneumolysin; Protein purification; Gene expression; (*S. pneumoniae*) (Mitchell, T.J. (1007) 67)

DNA; Shuttle plasmid; Luminescence; Luciferase gene; Gene expression; (*V. harveyi* gene); (*B. subtilis*); (*E. coli*) (Karp, M. (1007) 84)

Nucleotide synthesis; Phosphoribosylpyrophosphate synthetase; Ribose-phosphate pyrophosphokinase; Tissue-specific expression; Testis-specific transcript; (rat tissue) (Taira, M. (1007) 203)

Isozyme gene; Expression plasmid; Class I; Aldolase; Glycolytic pathway; Aldolase gene; (Human gene); (*E. coli* host) (Sakakibara, M. (1007) 334)

ribosomal DNA sequence
Transformation; Nontranscribed spacer; DNA integration; Nonhomologous recombination; (*N. crassa*) (Russell, P.J. (1008) 243)

ssDNA
Lactoferrin; Colostrum; Milk; Amino acid sequence; Purification; (Porcine) (Hutchens, T.W. (999) 323)

DNA binding protein; Herpes simplex virus; Protein ICP8; ICP8 (Leinbach, S.S. (1008) 281)

ssDNA binding protein
Lactate dehydrogenase; DNA polymerase stimulation; (*X. laevis* oocyte) (Kaiserman, H.B. (1008) 23)

RecA protein; Homologous recombination (Radding, C.M. (1008) 131)

DNAase I hypersensitivity
DNA methylation; Gene expression; Restriction endonuclease; Southern blotting; Adenovirus type 12-transformed cell (Bartnik, E. (1007) 228)

DNAase I footprinting
CCAAT displacement protein (CDP); Transcriptional regulation (Superti-Furga, G. (1007) 237)

Dolichol
Dolichyl phosphate; Polyisoprenoid; Cholesterol; Aging; (Mouse kidney); (Mouse liver) (Crick, D.C. (1004) 180)

Dolichol distribution
Dolichol synthesis; Polyprenol; (Rat liver microsome) (Sagami, H. (1002) 218)

Dolichol synthesis
Polyprenol; Dolichol distribution; (Rat liver microsome) (Sagami, H. (1002) 218)

Dolichyl monophosphate
Mannosyltransferase; Mitochondrial outer membrane; (Mouse liver) (Gasnier, F. (980) 339)

Dolichyl phosphate
Ceroid lipofuscinosis; Batten's disease; Dolichyl pyrophosphoryl oligosaccharide; Lysosome; (Sheep) (Hall, N.A. (993) 245)

Dolichol; Polyisoprenoid; Cholesterol; Aging; (Mouse kidney); (Mouse liver) (Crick, D.C. (1004) 180)

Dolichyl phosphoglucose
Glucosyltransferase; Regulation; Microsomal membrane; (Human liver microsome) (Matern, H. (1004) 67)

Dolichyl pyrophosphoryl oligosaccharide
Ceroid lipofuscinosis; Batten's disease; Dolichyl phosphate; Lysosome; (Sheep) (Hall, N.A. (993) 245)

Domain structure
HMG protein; Limited proteolysis; *Staphylococcus aureus* proteinase; Endoproteinase GluC (Abdul-Razzak, K.K. (996) 125)

Donnan potential
Protein valency; Protein charge; Polyacrylamide gel electrophoresis (Öjteg, G. (991) 317)

Dopamine D2 receptor
Affinity chromatography; Receptor purification; Photoaffinity labeling; Membrane receptor (Clagett-Dame, M. (986) 271)

Dopamine melanin
Adrenaline melanin; Melanin-copper complex; Pyrolysis GC-MS; Infrared ESR; Catecholamine (Stępień, K.B. (997) 49)

Doxorubicin
Pharmacokinetics; Drug delivery; Liposome (Druckmann, S. (980) 381)

S-DPI 201-106
Sodium ion channel; Cardiac muscle; Toxin; ATX II; Veratridine (Schreibmayer, W. (986) 172)

D1 protein
Photosystem II; Electron donor (Z); Peptide mapping; Tyrosine residue (Takahashi, Y. (973) 138)

Photosynthesis; Manganese; Histidine; Oxygen evolution; (Wheat) (Tamura, N. (973) 281)

Photosynthesis; Manganese; Oxygen evolution; Histidine; *Scenedesmus* mutant (LF-1) (Seibert, M. (974) 185)

Drug carrier
N-(2-Hydroxypropyl)methacrylamide copolymer; Monoclonal antibody B3/25; Transferrin; Targeting (Flanagan, P.A. (993) 83)

Drug delivery
Doxorubicin; Pharmacokinetics; Liposome (Druckmann, S. (980) 381)

Reticuloendothelial system; Mononuclear phagocyte system; Liposome; Ganglioside; Sphingomyelin; (Mouse) (Allen, T.M. (981) 27)

Pteridine antifolate; Drug metabolism; Liposome leakage assay (Ng, K.-y. (981) 261)

Electropermeabilization; Platelet; (Rat); (Human) (Hughes, K. (981) 277)

Drug entrapment
Micelle–vesicle transition; Bile salt; Phosphatidylcholine; Quasi-elastic light scattering; Transmission electron microscopy (Son, K. (981) 288)

Drug induction
mRNA; 5-Aminolevulinate synthase; (Rat) (Srivastava, G. (1007) 192)

Drug interaction
Cimetidine; Renal tubular transport; Procainamide; (Rat kidney) (Okudaira, N.-I. (981) 1)

Drug–lipid interaction
Membrane potential; Celiptium; Phosphatidylglycerol (Sautereau, A.M. (978) 276)

Drug–membrane interaction
Solid state NMR; NMR, ^{2}H-; (−)-Δ^9-Tetrahydrocannabinol; Cannabinoid orientation; Model membrane (Makriyannis, A. (986) 141)

Drug metabolism
Pteridine antifolate; Drug delivery; Liposome leakage assay (Ng, K.-y. (981) 261)

Drug resistance
Hydrogen peroxide resistance; Antioxidant enzyme; Catalase mRNA; mRNA stability; (MCF7) (Akman, S.A. (1009) 70)

Pyrazofurin; 6-Azauridine; Orotidine-5′-phosphate decarboxylase; Osteoblastic cell; Adenosine kinase deficient cell; (Mouse) (Beidler, D.R. (1014) 101)

Drug targeting
Immunoliposome; Chloroquine; In vivo model; Parasitized mouse red blood cell; (Rat) (Peeters, P.A.M. (981) 269)

Interferon; Poly(rI)·poly(rC); Antiviral chemotherapy; Liposome; Monoclonal antibody (Milhaud, P.G. (987) 15)

DSC
Sugar–lipid interaction; Phase diagram (Hentschel, M. (980) 169)

Erythrocyte; Hemolysis; Thermal denaturation; Hyperthermia; Membrane protein (Lepock, J.R. (980) 191)

Melittin; Protein–lipid interaction; Protein aggregation; Boundary lipid (Bradrick, T.D. (982) 94)

Phosphatidylglycerol; Polar headgroup stereoconfiguration; Monovalent cation; Phase behavior (Salonen, I.S. (982) 205)

Mixed acid; Phosphatidylcholine, mixed acid; Dienoic lipid; Cholesterol; Model membrane (Keough, K.M.W. (983) 51)

Detergent; Phospholipid vesicle; Critical micellar concentration; Fourier transform infrared spectroscopy; Freeze-fracture (Bayerl, T.M. (984) 214)

Hexagonal H_{II} phase; Trehalose; Dioleoylphosphatidylethanolamine; Fourier transform infrared spectroscopy; X-ray diffraction (Wistrom, C.A. (984) 238)

Duchenne muscular dystrophy
Calcium regulation; Muscle disease; Innervation; Becker muscular dystrophy (Martonosi, A. (991) 155)

Duodenum
Phospholipase A_2; Biliary lipoprotein; Pancreas; (Human) (Kozumplik, V. (1002) 395)

Duramycin
Mitochondrion; Inner membrane permeability; Volume change; Adenine nucleotide translocator; (Rat heart) (Sokolove, P.M. (983) 15)

Dwarf mutant
DNA methylation; 5-Azacytidine; (*Zea mays*) (Sano, H. (1009) 35)

Dynamic light scattering
Lipid vesicle; Internal volume (Kojro, Z. (985) 1)

Dynein
Isozyme; ATPase activity; GTPase activity; (Sea urchin egg) (Rose, P.M. (990) 31)

ATP; ATP analog; ATPase (Omoto, C.K. (999) 221)

Dynorphin
NMR, two dimensional; β-Strand; Model peptide; Amphiphilic structure (Vaughn, Jr., J.B. (999) 135)

E

Echinocytosis
Merocyanine 540; Microvesiculation; Erythrocyte membrane (Allan, D. (986) 115)

EDTA
Mitochondrion; EGTA; Adenine nucleotide; P_i-induced swelling; (Rat liver) (Lund, P. (975) 330)

Peroxidation; Peroxidase; Iodide (Banerjee, R.K. (992) 393)

E-F hand structure
Calcium binding domain; cDNA; Calcium binding protein; (Mouse poly(A)$^+$ RNA) (Kageyama, H. (1008) 255)

EGF receptor
Tyrosine protein kinase; Synthetic peptide; Phosphotyrosine; Phosphoacceptor site (Cola, C. (1012) 191)

Egg-specific protein
In vitro translation; Protein processing; (*B. mori* egg) (Kobayashi, M. (1009) 129)

EGTA
Mitochondrion; EDTA; Adenine nucleotide; P_i-induced swelling; (Rat liver) (Lund, P. (975) 330)

ATPase, Ca^{2+}-; Calcium ion pump; Calmodulin; Compound 48/80; Erythrocyte; (Human) (Rossi, J.P.F.C. (996) 153)

Ehrlich ascites carcinoma
Nucleotide phosphodiesterase; Phosphodiesterase (Fukazawa, H. (991) 272)

Eicosa
see Icosa

Eicosanoid excretion
Thromboxane; Prostacyclin; Prostaglandin; Smoking; (Human urine) (Barrow, S.E. (993) 121)

EI-MS
Deuteration; NAD(P)^{2}H; Dehydrogenase stereospecificity; NMR (Ottolina, G. (998) 173)

Elastase
Proteinase inhibitor; Elastin; α_2-Macroglobulin; (Human pancreas) (Laurent, P. (994) 285)

Proteinase inhibitor; Mucus; Leukocyte; (Human) (Boudier, C. (995) 36)

Elastase
Kinetics; Proteinase; Temperature (Fitzpatrick, P.F. (995) 201)

Elastolysis; Conductimetry; Tetraalanine; (*P. aeruginosa*) (Saulnier, J.M. (995) 285)

Elastase inhibitor
Pancreatic elastase; Elastase substrate; Substrate activation; Substrate inhibition; (Rat); (Pig) (Bieth, J.G. (994) 64)

Elastase substrate
Pancreatic elastase; Elastase inhibitor; Substrate activation; Substrate inhibition; (Rat); (Pig) (Bieth, J.G. (994) 64)

Elastin
Proteinase inhibitor; Elastase; α_2-Macroglobulin; (Human pancreas) (Laurent, P. (994) 285)

Elastolysis
Elastase; Conductimetry; Tetraalanine; (*P. aeruginosa*) (Saulnier, J.M. (995) 285)

Electrical gradient
Ion leak; Energy transducing membrane; Permeability coefficient; Non-ohmic behavior; Flux voltage equation (Garlid, K.D. (976) 109)

Electric charge distribution
Ionic strength dependence; Anion radical; Reaction rate; Flash photolysis (Egawa, T. (995) 207)

Electric dipole moment
Ganglioside; Phospholipid; Monolayer; Water/lipid interface; Lipid/air interface; Surface potential (Beitinger, H. (984) 293)

Electric field effect
Electron transport; Photosynthesis; Luminescence; (*H. chlorum*) (Vos, M.H. (973) 163)

Lipid bilayer; Membrane conductance; Dipolar interaction (Robello, M. (982) 173)

Electrochemistry
Cholesterol oxidase; Bile salt; Enzyme activity (Cheillan, F. (999) 233)

Electrochromic absorbance change
Spectroscopy; Membrane potential; ATP hydrolysis; (*Chlorella*) (Joliot, P. (975) 355)

Electrochromism
Chloroplast; ATPase; Thiol activation; Leaf (Kramer, D.M. (976) 28)

Electrofusion
Mesophyll protoplast; Asymmetrical breakdown; Electropermeabilization; Protoplast (Mehrle, W. (978) 267)

Cell hybrid; Membrane receptor transfer; (Human cell); (Rabbit tissue); (Somatic cell hybrid) (Grasso, R.J. (980) 9)

Electropermeabilization; Cytoskeletal reorganization; Microtubule; Immunofluorescence; (CHO cell) (Blangero, C. (981) 295)

Hypo-osmolar medium; Osmotic pressure shock; Sorbitol; Albumin; Divalent cation; Hybrid; (Mammalian cell) (Schmitt, J.J. (983) 42)

Membrane fusion; Erythrocyte; Storage dependence (Sowers, A.E. (985) 334)

Membrane fusion; Erythrocyte ghost; (Human); (Rabbit) (Sowers, A.E. (985) 339)

Electrogenic proton pump
Membrane potential; Proton efflux; Potassium ion/proton cotransport; Microelectrode measurement; (*D. discoideum*) (Van Duijn, B. (983) 186)

Membrane potential; ATP; Proton efflux; (*P. polycephalum*) (Kuroda, H. (987) 154)

Electrogenic reaction
D-Imino acid uptake; Sodium ion dependence; D-Proline; Hydroxy-D-proline; Luminal membrane vesicle; Proximal tubule; (Rabbit kidney) (Røigaard-Petersen, H. (984) 231)

Electrogenic transport
Sulfobromophthalein; Plasma membrane; Sulfhydryl group; (Rat liver) (Passamonti, S. (979) 294)

Bilitranslocase; Sulfobromophthalein; Plasma membrane; (Rat liver) (Miccio, M. (981) 115)

Electrokinetics
Platelet heterogeneity; Flow electrophoresis; Taxol; (Human) (Crook, M. (1014) 26)

Electromagnetic field
Metabolic effect; Membrane transport; Protein synthesis; (Rat skin) (De Loecker, W. (982) 9)

Electron acceptor
Photosystem II; Iron semiquinone; Bacterial photosynthesis; (*P. laminosum*) (Hubbard, J.A.M. (977) 91)

Electron acceptor complex
Bicarbonate effect; Electron transfer; Quinone; Photosynthetic bacterium; Chromatophore; Reaction center; Photosynthesis; (*Rb. sphaeroides*) (Shopes, R.J. (974) 114)

Electron donor (Z)
Photosystem II; D1-protein; Peptide mapping; Tyrosine residue (Takahashi, Y. (973) 138)

Electron microscopy
Creatine kinase; Contact site; Mitochondrial membrane; Myocardium; (Rat) (Biermans, W. (974) 74)

Photosystem I structure; Image analysis; (*Synechococcus*) (Boekema, E.J. (974) 81)

Absorption spectroscopy; Chlorophyll protein; Chloroplast; Fluorescence emission; Immunocytochemistry; P-700 (Simpson, D.J. (975) 164)

ATP synthase structure; Symmetry; ATPase, F_1-; Quaternary structure (Tiedge, H. (977) 1)

Phase transition; Glycosphingolipid; Cholesterol; Freeze-etching; Phospholipid bilayer (Rock, P. (979) 347)

Platelet membrane; Detergent; Cell lysis; Leakage; Component solubility; Aggregation; (Human blood) (Shiao, Y.-J. (980) 56)

Bacteriorhodopsin; Freeze-fracture; Lateral phase separation; NMR, ^{31}P-; Protein aggregation; Dimyristoylphosphatidylcholine; (*H. halobium*) (Sternberg, B. (980) 117)

Liposomal amphotericin B; Amphotericin B; Phase transition; Freeze-etch; ESR (Grant, C.W.M. (984) 11)

Platelet membrane; Ganodermic acid S; Aggregation; Phosphoinositide metabolism; (Human blood) (Wang, C.-N. (986) 151)

Dipalmitoylphosphatidylcholine; Liposome; Ascorbate oxidase; Protein–lipid interaction (Mossa, G. (986) 310)

Glutamate dehydrogenase; (*C. pyrenoidosa*) (Shatilov, V.R. (995) 17)

Macroglobulin, α_2M; Protein dissociation; Protein conformation (Pochon, F. (996) 132)

α-Crystallin; Phosphorylation; Tertiary structure; Tryptophan environment; Sulfhydryl location; Light scattering (Augusteyn, R.C. (999) 293)

Macrophage; Protein kinase C; cyclic AMP; Cell spreading; (Mouse cell line) (Petty, H.R. (1012) 284)

Autoantigen; Galactose specific receptor; Receptor mediated endocytosis; (Rat Kuppfer cell); (Rat hepatocyte) (Schlepper-Schäfer, J. (1013) 266)

Electron paramagnetic resonance
Cytochrome oxidase; Metal analysis (Öblad, M. (975) 267)

Electron spin echo spectroscopy
Manganese; Spin lattice relaxation time; Photosystem II; Oxygen evolution (Evelo, R.G. (973) 428)

Electron spin polarization
ESR; Reaction center; Photosynthesis; Deuteration; (*Rb. sphaeroides*) (Feezel, L.L. (974) 149)

Electron spin resonance
Superoxide dismutase; Liposome; Protein–membrane interaction; (Human erythrocyte) (Marcocci, L. (979) 99)

Electron transfer
Kinetics; Cytochrome *c*; Metal hexacyamide complex; Photoexcitation (Cho, K.C. (973) 53)

Energy transfer; Reaction center; Low temperature; Triplet formation; (*H. chlorum*) (Smit, H.W.J. (973) 212)

Photosynthetic bacterium; Respiration, bacterial; Cytochrome *c*; (Rhodospirillaceae) (Lavorel, J. (973) 290)

Glutathione reductase; Quinone/NADPH oxidation; Flavoprotein redox reaction (Čénas, N.K. (973) 399)

Photosystem II; Water oxidation; pH effect (Meyer, B. (974) 36)

Bicarbonate effect; Quinone; Photosynthetic bacterium; Chromatophore; Reaction center; Electron acceptor complex; Photosynthesis; (*Rb. sphaeroides*) (Shopes, R.J. (974) 114)

NADH:Q oxidoreductase; NADPH oxidation; Pre-steady-state kinetics; (Bovine heart mitochondria) (Van Belzen, R. (974) 311)

Flavoprotein; Mitochondrion; Enoyl-CoA reduction; Protein purification; (*A. suum*) (Komuniecki, R. (975) 127)

Photosynthetic bacteria; Supercomplex; Reaction center; Cytochrome; (*Rb. sphaeroides*) (Joliot, P. (975) 336)

Photosystem II; Photoacoustic spectroscopy; Energy storage; Plastoquinone (Carpentier, R. (975) 370)

Reaction center; Chemically modified electrode; Photoelectrochemical cell (Katz, E.Y. (976) 121)

Photosystem II; P-680; (*Synechococcus* sp.) (Gerken, S. (977) 52)

Reaction center; Heme; Cytochrome *c*; Redox potential; (*Rps. viridis*) (Fritzsch, G. (977) 157)

Reaction center; Photosynthesis; Bacterial photosynthesis; (*Rps. viridis*) (Krishtalik, L.I. (977) 200)

Cytochrome oxidase; Flow flash spectrophotometry; Oxygen intermediate; pH dependence; Temperature dependence (Oliveberg, M. (977) 322)

Cytochrome *c*; Respiratory chain; (Thermophilic bacterium PS3) (Sone, N. (977) 329)

Electron transfer dynamics
Photosynthesis; Reaction center; Charge separation (Bacterium) (Friesner, R.A. (977) 99)

Electron transfer, intramolecular
Cytochrome c_3; Ferredoxin I cross-linking; ESR; Iron-sulfur cluster; Redox potential (Dolla, A. (975) 395)

Electron transfer protein
Bacterial protein; Protein structure; Redox protein (Meyer, T.E. (975) 1)

Electron transport
Photosynthesis; Electric field effect; Luminescence; (*H. chlorum*) (Vos, M.H. (973) 163)

Reaction center; Cytochrome bc_1 complex; Carotenoid bandshift; Potentiometry; (*Rb. sphaeroides*) (Drachev, L.A. (973) 189)

Respiratory chain; Cytochrome *c*; Cytochrome-*c* oxidase; Cytochrome-*c* reductase; (*P. denitrificans*) (Bolgiano, B. (973) 227)

Sulfide; Cytochrome; B-700; (*O. Limnetica*) (Slooten, L. (973) 272)

Photosynthetic bacterium; TMAO/DMSO reductase; Cytochrome *c*-556; Periplasmic protein; (*Rb. capsulatus*) (McEwan, A.G. (973) 308)

Chemiluminescence; Photosynthesis; Thermoluminescence; Chloroplast preparation (Rózsa, Z. (973) 350)

Enzyme reconstitution; Photophosphorylation; Reaction center; Cytochrome bc_1 complex; ATP synthase; (*R. capsulatus*) (Gabellini, N. (974) 202)

Nitrogen fixation; ATP synthesis; Hydrogen oxidation; Leghemoglobin (O'Brian, M.R. (974) 229)

Copper inhibition; Primary photochemistry; Photosystem II reaction center; Chlorophyll fluorescence; (Pea chloroplasts) (Renganathan, M. (974) 247)

Tentoxin; Nigericin; Energy dissipation; (Spinach leaf) (Quick, P. (974) 282)

Cytochrome *f*; Plastocyanin; Chemical modification (Adam, Z. (975) 158)

Sulfur oxidation; Phototrophic bacteria (Brune, D.C. (975) 189)

Calcium channel blocker; Chloroplast; Oxygen evolving system (Semin, B.K. (975) 239)

Respiratory chain; Pathogenic bacteria; (*Pseudomonas*) (Zannoni, D. (975) 299)

Photosystem I; Catalytic hydrogenation; Lipid saturation; Thermal stability (Vigh, L. (979) 361)

Carbon assimilation; Chlorophyll fluorescence; Fluorescence quenching; Photosystem II; Quantum yield (Genty, B. (990) 87)

Electron transport chain
Cytochrome bc_1 complex; Quinone binding; Purple bacterium; (*R. rubrum*) (Kriauciunas, A. (976) 70)

Electron transport mechanism
Cytochrome *d*; Cytochrome *b*; ESR; Thermodynamics; (*E. coli*) (Meinhardt, S.W. (975) 175)

Electropermeabilization
Mesophyll protoplast; Asymmetrical breakdown; Electrofusion; Protoplast (Mehrle, W. (978) 267)

Platelet; Drug delivery; (Rat); (Human) (Hughes, K. (981) 277)

Electrofusion; Cytoskeletal reorganization; Microtubule; Immunofluorescence; (CHO cell) (Blangero, C. (981) 295)

Plasma membrane; cyclic AMP; β-Adrenergic receptor; C6 glioma cell; GTP (Volker, T.T. (984) 243)

Phosphatidylcholine biosynthesis; Choline uptake; Hemicholinium-3; Rat glioma; Cellular compartmentation (George, T.P. (1004) 283)

Electrophoresis
Membrane; Ion channel; Diffusion; Neuromuscular junction; Morphogenesis (Fromherz, P. (986) 341)

Electroporation
Voltage shock; RNA transfection; Phage RNA; (*E. coli*) (Taketo, A. (1007) 127)

Electrorotation
In vitro fertilization; Fertilization; Single cell rotation; Microvilli; Membrane capacity; Membrane resistivity; (Zona pellucida) (Arnold, W.M. (979) 142)

Transmembrane potential; Phase difference; Membrane modification; Membrane behavior, non-linear (Fuhr, G. (980) 1)

Electrostatic interaction
ATPase, Mg^{2+}-; Vanadate inhibition; Ionic effect; (Corn root plasmalemma) (Gibrat, R. (979) 46)

Protein ionization; Lysozyme; Theoretical model (Spassov, V.Z. (999) 1)

Elemental mercury
Mercury; Inorganic mercury; Blood; Exhalation; (Lung) (Magos, L. (991) 85)

ELISA
Fatty acid binding protein; Subcellular distribution; Mitochondrion; Nucleus; (Bovine heart) (Börchers, T. (1002) 54)

Metallothionein; Copper(I) thiolate; Copper increase; Melanoma; Immunoblot; (Horse) (Krauter, B. (1013) 212)

Embryogenesis
Ovalbumin; Yolk; (White Leghorn hens) (Sugimoto, Y. (992) 400)

Emetine
Cycloheximide; mRNA accumulation; (*D. discoideum*) (Ratner, D.I. (1008) 71)

Emission ratio
pH indicator; Fluorescence; Phospholipid vesicle; Kinetics (Knight, C.G. (985) 75)

Enamelin
Amelogenin; Cementum; Immunoblotting; Amino acid composition; (Mouse cementum); (Human cementum) (Slavkin, H.C. (991) 12)

Enantiomer
Hydroxyicosatetraenoic acid; 12-Lipoxygenase; Stimulus-response coupling (Turk, J. (1001) 16)

Endo-β-*N*-acetylglucosaminidase
Sugar chain, N-linked; Glucoamylase; (*R. niveus*) (Takegawa, K. (990) 98)

Endochitinase
Cereal; α-Amylase inhibitor; Protein, PR; Crop protection (Ary, M.B. (999) 260)

Endocytosis
Kallikrein; Receptor; (Rat liver) (Kouyoumdjian, M. (980) 299)

Cholesterol homeostasis; LDL (Sainte-Marie, J. (982) 265)

Vacuole; ATPase, H^+-; Proton pump; Prelysosome; (*D. discoideum*) (Padh, H. (982) 271)

Scavenger receptor; Maleylated bovine serum albumin; Acetylated LDL; Liver metabolism; Macrophage; Receptor-mediated endocytosis; (Rat) (Takata, K. (984) 273)

Immunoliposome; Acid sensitivity; Endosome; Diphtheria toxin (Collins, D. (987) 47)

Epidermal growth factor; (Human carcinoma cells); (A431 cells) (Sorkin, A. (1011) 88)

Phosphatidylserine; Phospholipid; Liposome; Macrophage; Lymphocyte; (Rat) (Mietto, L. (1013) 1)

Endometrium
Progesterone receptor; Myometrium; Antiprogestin ZK 98.299; Relative binding affinity; Binding characteristic; (Human) (Puri, C.P. (1011) 176)

Endonuclease
Enzyme purification; (Rat liver nucleus) (Hibino, Y. (1008) 287)

Endopeptidase
Active site; Histidine; Substrate specificity; (Maize root) (Batt, R. (990) 109)

Endopeptidase 24.11
Sulfation; Gastrin; Cholecystokinin; Metabolism (Pauwels, S. (996) 82)

Parathyroid hormone; Peptide degradation; UMR-106 cell; Chymotrypsin; (Rat) (Yamaguchi, T. (1010) 177)

Endoplasmic reticulum
Calcium binding protein; Sarcoplasmic reticulum; Calregulin homology (Fliegel, L. (982) 1)

Intestinal lipoprotein; Golgi apparatus; Chylomicron formation; VLDL (Nutting, D. (1004) 357)

Endoproteinase GluC
HMG protein; Domain structure; Limited proteolysis; *Staphylococcus aureus* proteinase (Abdul-Razzak, K.K. (996) 125)

ENDOR
Photosystem II; Cytochrome *b*-559 D_1D_2 complex; Intermediate electron acceptor; Pheophytin (Lubitz, W. (977) 227)

Endosome
Immunoliposome; Acid sensitivity; Endocytosis; Diphtheria toxin (Collins, D. (987) 47)

Endothelial cell
Lysosomal hydrolase; Agonist; Vascular cell; (Human) (Morgan, D.M.L. (1010) 184)

Von Willebrand factor; Protein secretion; (Human umbilical cord vein) (Van Buul-Wortelboer, M.F. (1011) 129)

Endothelial secretion
Plasminogen activator; intracellular cyclic AMP; Inhibitor; Signal transduction; (Human umbilical cord cell) (Francis, Jr, R.B. (1012) 207)

Endotoxin
Ionophore A23817; Phospholipid pool; Arachidonic acid turnover (Rogers, T.S. (1001) 169)

δ-Endotoxin
Crystal protein; Liposome; Phospholipid; (*B. thuringiensis aizawai*) (Haider, M.Z. (978) 216)

Energy calculation
Leu-enkephalin; Solution conformation; NMR; Overhauser effect (Vesterman, B. (998) 204)

Energy charge
Enzyme release; Cell damage; ATP depletion; Metabolic inhibitor; (Human embryonal lung fibroblast) (Kristensen, S.R. (1012) 272)

Energy coupling
Osmometry; Cytochrome oxidase; Enzyme latency; Ionic strength; Mitochondrial inner membrane; (Rat liver mitochondria) (Sitaramam, V. (975) 252)

Amino acid transport; Proton/amino acid symport; Kinetics; Permease; (*P. cyclopium*) (Roos, W. (978) 119)

Energy dissipation
Tentoxin; Nigericin; Electron transport; (Spinach leaf) (Quick, P. (974) 282)

Energy metabolism
Forskolin; cyclic AMP synthesis; Proteoglycan synthesis (Hu, L.-M. (1013) 294)

Energy metabolism regulation
Fructose metabolism; NMR, ^{31}P- (Karczmar, G.S. (1012) 121)

Energy migration
Phycoerythrin 566; Biliprotein; Photosynthetic pigment; Fluorescence; Cryptoviolin (Guard-Friar, D. (973) 118)

Energy storage
Photosynthesis; Optoacoustic spectroscopy; Energy transfer; Photosynthetic bacterium; (*Rsp. rubrum*) (Nitsch, C. (975) 88)

Photosystem II; Electron transfer; Photoacoustic spectroscopy; Plastoquinone (Carpentier, R. (975) 370)

Energy transducing membrane
Ion leak; Permeability coefficient; Non-ohmic behavior; Electrical gradient; Flux voltage equation (Garlid, K.D. (976) 109)

Energy transduction
Phosphate bond hydrolysis; Water activity; Solvation energy; Enzyme mechanism (De Meis, L. (973) 333)

Energy transfer
Fluorescence; Photosynthesis; Phycobilisome; Picosecond spectroscopy; (Cyanobacterium); (*A. variabilis* (M-3)) (Mimuro, M. (973) 153)

Electron transfer; Reaction center; Low temperature; Triplet formation; (*H. chlorum*) (Smit, H.W.J. (973) 212)

Light harvesting; Transposon mutagenesis; Photosynthesis; Antenna complex; (*Rb. sphaeroides*) (Hunter, C.N. (973) 383)

Optical cross section; Poisson distribution; Trap; Reaction center; Single turnover flash; Quantum requirement; Fluorescence induction; Antenna, light-harvesting; Pigment protein (Mauzerall, D. (974) 119)

Chlorophyll photobleaching; Chlorophyll fluorescence; Photosystem II; Photosynthesis (Jennings, R.C. (975) 29)

Photosynthesis; Bacterial photosynthesis; Picosecond spectroscopy; Fluorescence; Bacteriochlorophyll; (*Rb. sphaeroides*) (Shimada, K. (975) 72)

Photosynthesis; Optoacoustic spectroscopy; Energy storage; Photosynthetic bacterium; (*Rsp. rubrum*) (Nitsch, C. (975) 88)

Excitation annihilation; Antenna complex; Low temperature; (*R. rubrum*) (Deinum, G. (976) 63)

Bacteriochlorophyll binding protein; Membrane protein; Amino acid sequence; Proteoliposome chromatophore fusion (Tadros, M.H. (976) 161)

Fucoxanthin-chlorophyll *a*/*c* protein; Chlorophyll *c*; Supramolecular assembly; Decyl sucrose; Light-harvesting pigment; (Brown alga); (*D. dichotoma*) (Katoh, T. (976) 233)

Phycobilisome mutant; Allophycocyanin-B deletion (Maxson, P. (977) 40)

Enoyl-CoA reduction
Electron transfer; Flavoprotein; Mitochondrion; Protein purification; (*A. suum*) (Komuniecki, R. (975) 127)

Enoyl reductase
Phenyl glyoxal; Acyl ACP site; (*B. napus*) (Cottingham, I.R. (995) 273)

Enterokinase
Cystic fibrosis; Serum activation; Immunoreactivity; Trypsin; (Human) (Carrère, J. (993) 137)

Enterotoxin
Binding substance; Heat-labile enterotoxin; (Chicken); (*E. coli*) (Sugii, S. (983) 30)

Cytotoxin; Intestinal secretion; (*C. difficile*) (Torres, J.F. (998) 151)

Entrapment
Phospholipid vesicle; Membrane protein-lipid vesicle; Immobilization; (Human erythrocyte) (Wallstén, M. (982) 47)

Envelope glycoprotein
Phospholipid; Glycoprotein; Reconstituted hybrid vesicle; (Sendai virus); (Influenza virus) (Lapidot, M. (980) 281)

Enzyme
Micellar enzymology; Membrane; Reversed micellar system (Martinek, K. (981) 161)

Enzyme activation
Chloroplast; ATPase, H^+-; Photophosphorylation; Nucleotide binding (Lohse, D. (976) 94)

Glutamate dehydrogenase; Leucine (Couée, I. (995) 97)

Enzyme activity
Tissue plasminogen activator; Fibrin; Clot binding (Lavie, E. (991) 62)

Hydrogenase; Nickel; Redox titration; (*M. thermoautotrophicum*) (Coremans, J.M.C.C. (997) 256)

Cholesterol oxidase; Bile salt; Electrochemistry (Cheillan, F. (999) 233)

Lipoprotein lipase; Calcium; Ionophore A23187; Thrombin; (Rat adipocyte) (Soma, M.R. (1003) 307)

Casein kinase II; Cell growth; Nucleolin; (Human fibroblast) (Schneider, H.R. (1014) 98)

Enzyme aggregate
CTP : choline-phosphate cytidylyltransferase; Cytidylyltransferase; Phosphatidylcholine synthesis; Isozyme structure (Weinhold, P.A. (1006) 299)

Enzyme binding
Muscle fatigue; Phosphofructokinase; Glycolysis; (Gastrocnemius muscle); (*R. pipiens*) (Guderley, H. (977) 87)

Enzyme characterization
Transport protein; Carrier protein; Reconstitution; Artificial membrane; (Mitochondria) (Krämer, R. (974) 1)

Halotolerant alga; Kinetics; Vanadate sensitive ATPase; (*D. salina*) (Weiss, M. (974) 254)

Arginine; Cyanobacterium; Photosystem II; (*Synechococcus* sp.) (Meyer, R. (975) 80)

Cellobiohydrolase; Enzyme purification; (*C. thermophile*) (Ganju, R.K. (993) 266)

Hepatic lipase; Heparin; (Golden hamster) (Jansen, H. (1001) 44)

NAD(P) dependent hydroxysteroid dehydrogenase; Epimerization; Bile acid transformation; (*Ps. productus*) (Edenharder, R. (1004) 230)

Enzyme conformation
ATPase, F_1-; Temperature dependence; Nucleotide binding site; Fluorescence; Enzyme kinetics (Baracca, A. (976) 77)

ATPase, Na^+/K^+-; Antibody binding site; Ion binding; Conformational transition (Friedman, M.L. (995) 42)

Enzyme decay
Glucose-6-phosphate isomerase; Erythrocyte aging (Fazi, A. (998) 286)

Enzyme deficiency
Phosphatidylcholine; Molecular species profile; Lecithin–cholesterol acyltransferase (Subbaiah, P.V. (1003) 145)

Enzyme denaturation
Cholinesterase; Acetylcholinesterase; Ligand binding; Inhibitor (Payne, C.S. (999) 46)

Enzyme distribution
Bleomycin hydrolase; Intrinsic resistance; Intracellular degradation; Monoclonal antibody; (Chinese hamster cell line) (Nishimura, C. (1012) 29)

Enzyme elasticity
Flux control coefficient; Metabolic regulation (Barrett, J. (992) 369)

Enzyme expression
Protein kinase C; Phorbol ester; Cell differentiation (Hooper, W.C. (1013) 47)

Enzyme immunoassay
Cytidylate cyclase; cyclic CMP; (Mouse tissue homogenate) (Yamamoto, I. (993) 191)

Enzyme inactivation
Hexaprenyl-diphosphate synthase; Prenyltransferase; Sulfhydryl reagent; Arginine specific reagent; Enzyme protection; (*M. luteus* B-P 26) (Yoshida, I. (995) 138)

Peroxidase; Isoenzyme; Indolylacetic acid oxidation; Auxin (Acosta, M. (996) 7)

Fatty acid synthase; Affinity labeling; Enzyme kinetics (Tian, W.-X. (998) 310)

Enzyme induction
Trimethylamine-*N*-oxide reductase; Immunoelectrophoresis; (*E. coli*) (Silvestro, A. (999) 208)

Acylglycerophosphocholine acyltransferase; Peroxisome proliferator; (Rat kidney) (Kawashima, Y. (1006) 214)

Alkaline phosphatase; dibutyryl cyclic AMP; Prednisolone; (Human fetal liver cell) (Sorimachi, K. (1010) 72)

Alkaline phosphatase; Hyperosmolality; Sodium butyrate; (Cultured colon cancer cell) (Herz, F. (1013) 259)

Enzyme inhibition
Bile salt stimulated lipase; Chemical modification; (Human skim milk) (Abouakil, N. (1002) 225)

Cholesterol gallstone; Gallstone; HMG-CoA reductase; Lithogenic index; Hyperlipidemia; (Hamster) (Koide, K. (1005) 65)

Gastric lipase; Ajoene; (Human) (Gargouri, Y. (1006) 137)

Enzyme kinetics
Chloroplast; ATPase, H^+-; Enzyme regulation; Azide inhibition (Minkov, I.B. (973) 7)

ATPase F_1; Yeast mutant; Beta subunit; Nucleotide; Negative cooperativity; (*S. pombe*) (Falson, P. (975) 119)

ATPase, F_1-; Temperature dependence; Enzyme conformation; Nucleotide binding site; Fluorescence (Baracca, A. (976) 77)

Dicarboxylate carrier reconstitution; Liposome; Mitochondrion; (Rat liver) (Indiveri, C. (977) 187)

Dicarboxylate carrier mechanism; Substrate inhibition; Liposome; Mitochondrion; (Rat liver) (Indiveri, C. (977) 194)

Membrane-bound enzyme; Amphiphilic substrate; Enzyme purification; Acyl-CoA; Acyl-CoA elongase (Bessoule, J.-J. (983) 35)

Mathematical modeling; Membrane enzyme; Phospholipid vesicle; Kinetic constant; Partition constant (Heirwegh, K.P.M. (995) 151)

Alkaline phosphatase; (*D. discoideum*) (Bhanot, P. (995) 291)

Phosphonoacetaldehyde hydrolase purification; Orthophosphite inactivation; (*P. aeruginosa* A 237) (Dumora, C. (997) 193)

Lactate dehydrogenase; Viscosity; Protein dynamics (Demchenko, A.P. (998) 196)

Fatty acid synthase; Affinity labeling; Enzyme inactivation (Tian, W.-X. (998) 310)

Bifunctional enzyme; Folylpolyglutamate; Formiminotransferase-cyclodeaminase; (Pig liver) (Findlay, W.A. (999) 52)

Particulate guanylate cyclase; Atriopeptin; Receptor binding (Waldman, S.A. (999) 157)

Glucose-6-phosphate dehydrogenase; Substrate analog (Birke, S. (999) 243)

Phospholipase A_2; Interfacial catalysis (Jain, M.K. (1002) 127)

Triacylglycerol hydrolase; Fatty acid specificity; Fatty acid chain length (Rangheard, M.-S. (1004) 20)

Enzyme latency
Osmometry; Cytochrome oxidase; Energy coupling; Ionic strength; Mitochondrial inner membrane; (Rat liver mitochondria) (Sitaramam, V. (975) 252)

Enzyme–lipid interaction
Lactate dehydrogenase; Isozyme (Dąbrowska, A. (980) 357)

Enzyme mechanism
Phosphate bond hydrolysis; Energy transduction; Water activity; Solvation energy (De Meis, L. (973) 333)

α-Amylase; Glycosidic bond hydrolysis; NMR; Covalent enzyme intermediate; Cryological enzymology; (Porcine pancreas) (Tao, B.Y. (995) 214)

Serine proteinase; Trypsin-like enzyme; Catalytic mechanism (Ascenzi, P. (998) 210)

Enzyme protection
Hexaprenyl-diphosphate synthase; Prenyltransferase; Sulfhydryl reagent; Arginine specific reagent; Enzyme inactivation; (*M. luteus* B-P 26) (Yoshida, I. (995) 138)

Enzyme purification
Enzyme kinetics; Membrane-bound enzyme; Amphiphilic substrate; Acyl-CoA; Acyl-CoA elongase (Bessoule, J.-J. (983) 35)

Isocitrate dehydrogenase; Thermophile; (*Thermus*) (Eguchi, H. (990) 133)

Hydroxymethylpyrimidine kinase; (*E. coli*) (Mizote, T. (991) 109)

Catalase; (*K. pneumoniae*) (Goldberg, I. (991) 330)

Metalloproteinase; Mammary carcinoma; Carcinoma; (Rat) (Nethery, A. (993) 42)

Cellobiohydrolase; Enzyme characterization; (*C. thermophile*) (Ganju, R.K. (993) 266)

Prostaglandin-E_2 9-ketoreductase; Affinity purified antibody; Radioimmunoassay; (Swine kidney) (Krüger, S. (1001) 9)

Ethanolaminephosphotransferase; Lipid dependence; Enzyme reconstitution; (Rat brain microsome) (Roberti, R. (1004) 80)

Cholesterol esterase; Bile salt stimulated lipase; carboxylester lipase (Camulli, E.D. (1005) 177)

Endonuclease; (Rat liver nucleus) (Hibino, Y. (1008) 287)

Restriction endonuclease; Acidophilic bacterium; Isoschizomer; (*A. facilis*) (Dou, D. (1009) 83)

Nucleoid; DNA binding protein; Histone-like protein; (*B. subtilis*) (Salti, V. (1009) 161)

Enzyme-receptor complex
AP endonuclease; Microsomal receptor; Membrane protein; Karyophilic protein; (Rat liver microsome) (Verly, W.G. (1008) 183)

Enzyme reconstitution
Photophosphorylation; Electron transport; Reaction center; Cytochrome bc_1 complex; ATP synthase; (*R. capsulatus*) (Gabellini, N. (974) 202)

Ethanolaminephosphotransferase; Enzyme purification; Lipid dependence; (Rat brain microsome) (Roberti, R. (1004) 80)

Enzyme regulation
Chloroplast; ATPase, H^+-; Azide inhibition; Enzyme kinetics (Minkov, I.B. (973) 7)

Photophosphorylation; ATPase; Thylakoid membrane; Proton gradient; (Lettuce chloroplasts) (Bizouarn, T. (974) 104)

Chloroplast; ATPase, H^+-; Thiol modulation; Proton gradient; 9-Aminoacridine (Lohse, D. (976) 85)

Divalent cation; Manganese; Nitrate uptake; Glutamine synthetase; (*A. chroococcum*) (Ruiz, M.T. (993) 36)

Enzyme release
Energy charge; Cell damage; ATP depletion; Metabolic inhibitor; (Human embryonal lung fibroblast) (Kristensen, S.R. (1012) 272)

Enzyme stability
ATPase, Ca^{2+}-; Detergent; Poly(ethylene glycol); (Sarcoplasmic reticulum) (Welte, W. (984) 193)

Enzyme-substrate binding
Valyl-tRNA synthetase; Valine-tRNA ligase; 3′-*O*-Anthraniloyl-ATP; Fluorometric titration; Fast kinetics; Stopped flow method; (*B. stearothermophilus*) (Kakitani, M. (996) 76)

Enzyme subunit
Glucose oxidase; Thermostability; (*A. niger*) (Ye, W.-N. (999) 86)

Enzyme translocation
CTP:phosphocholine cytidylyltransferase; Phosphatidylcholine synthesis; Calcium; (Rat hepatocyte) (Sanghera, J.S. (1003) 284)

Enzymic chlorination
Chlorophyll *a*; Chloroperoxidase; Chlorophyll chlorination (Senge, M. (977) 177)

Epidermal carboxypeptidase
Carboxypeptidase; Substrate specificity; Peptide hydrolysis; (Rat); (Epidermal cell) (Kikuchi, M. (991) 19)

Epidermal growth factor
Endocytosis; (Human carcinoma cells); (A431 cells) (Sorkin, A. (1011) 88)

Ionic channel; Patch clamp; Calcium signal; (Human carcinoma cell) (Mozhayeva, G.N. (1011) 171)

pH, cytoplasmic; Thyroid-stimulating hormone; Alkalinization; (Cultured porcine thyroid cell) (Takasu, N. (1012) 117)

Lung development; Fetal lung; Fibroblast pneumocyte factor; Pulmonary surfactant (Nielsen, H.C. (1012) 201)

Non histone protein; Protein degradation; Nuclear translocation; DNA synthesis; (Monkey kidney cell) (Polet, H. (1013) 279)

Epidermis
Glucocerebroside; Glucocerebrosidase; Glucosidase; Glucosylceramide; Glycolipid; (Pig) (Wertz, P.W. (1001) 115)

Epimerization
NAD(P) dependent hydroxysteroid dehydrogenase; Enzyme characterization; Bile acid transformation; (*Ps. productus*) (Edenharder, R. (1004) 230)

Epinephrine
Mono(ADP-ribosyl)ation; Mono(ADP-ribosyl)transferase; Adenylate cyclase; GTP binding protein; (Human platelet membrane) (Tanuma, S. (1010) 246)

Epinephrine-induced aggregation
ADP-effected aggregation; Platelet aggregation inhibitor; Carbamoylpiperidinoalkane; *N*-Alkylnipecotoylpiperazine; Structure–activity relationship; (Human blood) (Petrusewicz, J. (983) 161)

Epiphyseal plate
Cartilage; Mechanical force; Glycosaminoglycan biosynthesis; Protein biosynthesis (Gray, M.L. (991) 415)

Epithelial cell
Cell clone; Cell heterogeneity; Hormone response; (MDCK cell) (Nakazato, Y. (1014) 57)

Epithelial cell culture
Alkaline phosphatase isoenzyme; Orellanine; ($LLC\text{-}PK_1$); (Caco-2) (Ruedl, C. (991) 280)

Epithelium, intestinal
β-Casomorphin; Leucine transport; Epithelium, tight; Peptide; (Rat) (Ermisch, A. (982) 79)

Epithelium, tight
β-Casomorphin; Leucine transport; Epithelium, intestinal; Peptide; (Rat) (Ermisch, A. (982) 79)

Epitope characterization
Apolipoprotein; Polyclonal antibody; (Oilseed); (*Cruciferae*) (Au, D.M.Y. (1005) 97)

Epoxide hydrolase
Microsome; Gene; DNA sequence; (Human) (Wilson, N.M. (1008) 357)

EPR
see ESR

Epsilon subunit
Coupling factor; Isozyme heterogeneity; Dithiothreitol; (Spinach); (*C. reinhardtii*) (Duhe, R.J. (974) 294)

Epstein-Barr virus
Transformed B cell; Bone metabolism; Interleukin 1; Cell proliferation; (Human blood cell) (Hanazawa, S. (1012) 57)

Epstein-Barr virus derived vector
Shuttle vector; Transcription; Mutagenesis; (Human embryonic kidney cell) (Palombo, F. (1009) 251)

Equilibrium binding
Adriamycin; Anthracycline; Phospholipid; Liposome; Fluorescence spectroscopy (Burke, T.G. (982) 123)

Equilibrium constant
Imidazole, substituted; Molecular orbital calculation; Free energy perturbation (Worth, G.A. (993) 134)

Equilibrium isotope exchange kinetics
Aspartate transcarbamylase; Site-specific mutation (Hsuanyu, Y. (995) 54)

Equivalent pore radius
Reflection coefficient; Respiration; Osmotic swelling; (Rat liver mitochondria) (Mathai, J.C. (976) 214)

Ergosterol
Polyene antibiotic; Amphotericin B; Calcium ion permeability; Liposome; Large unilamellar vesicle; Cholesterol; Arsenazo III (Ramos, H. (982) 303)

Erucic acid
Lignoceryl-CoA ligase; Peroxisomal β-oxidation; Adrenic acid; X-linked adrenoleukodystrophy; Neonatal adrenoleukodystrophy; (Human fibroblast) (Christensen, E. (1002) 79)

Fatty acid metabolism; Palmitic acid; (Pig heart) (Sauer, F.D. (1004) 205)

Erythrocyte
Phenylhydrazine; Spectrin; Protein degradation; Proteolysis; (Human) (Arduini, A. (979) 1)

Anion transport; Dipyridamole; Band 3 protein (Legrum, B. (979) 193)

Potassium ion channel; Potassium ion transport; Calcium ion dependence; Snake venom (Alvarez, J. (980) 134)

Hemolysis; Thermal denaturation; Hyperthermia; Membrane protein; DSC (Lepock, J.R. (980) 191)

Band 3 protein; Anion transport; Proteolytic fragment; Amino acid sequence; (Mouse) (Raida, M. (980) 291)

Glycophorin; CD4; Membrane–protein interaction; Flow cytometry; Immunoelectron microscopy (Arvinte, T. (981) 51)

Glycophorin; CD4; Membrane–protein interaction; pH effect; Membrane defect (Arvinte, T. (981) 61)

Vesicle release; Amphiphile; Detergent; Shape alteration (Hägerstrand, H. (982) 179)

Potassium ion transport; *N*-Ethylmaleimide; Peroxide; Hemoglobin; Thiol; (Human) (Sheerin, H.E. (983) 65)

Passive cation transport; Permeability, sodium/potassium ion; Ferricyanide; Iodoacetate; *p*-Chloromercuribenzenesulfonate; Ionophore A23187; (Human) (Fuhrmann, G.F. (983) 179)

Protein kinase C; Subcellular distribution; Sickle cell (Apovo, M. (984) 26)

Urea; Channel; Carrier; Kinetics; Permeability (Yousef, L.W. (984) 281)

Electrofusion; Membrane fusion; Storage dependence (Sowers, A.E. (985) 334)

L-Carnitine; Palmitoylcarnitine; Membrane fluidity; Spin label; Free fatty acid metabolism; (Human) (Kobayashi, A. (986) 83)

Magnesium; Phosphoribosylpyrophosphate synthetase; Pyrimidine nucleotide; Pyrimidine 5′-nucleotidase deficiency (Lachant, N.A. (994) 81)

ATPase, Ca^{2+}-; Calcium ion pump; Calmodulin; Compound 48/80; EGTA; (Human) (Rossi, J.P.F.C. (996) 153)

Phosphoglucoisomerase; Phosphomannoisomerase; Parotid cell; Pancreatic islet cell (Malaisse-Lagae, F. (998) 118)

NMR, ^{31}P-; Proton relaxation; Nuclear Overhauser effect; (Human) (Monti, J.-P. (1010) 210)

Sodium ion, intracellular; Magnesium ion, intracellular; Calcium ion, intracellular; Reticulocyte; (Guinea pig blood) (Jelicks, L.A. (1012) 261)

Erythrocyte aging
Glucose-6-phosphate isomerase; Enzyme decay (Fazi, A. (998) 286)

Erythrocyte CR1
Immune complex; Binding kinetics; Systemic lupus erythematosus (Meryhew, N.L. (991) 470)

Erythrocyte ghost
Electrofusion; Membrane fusion; (Human); (Rabbit) (Sowers, A.E. (985) 339)

Erythrocyte membrane
ATPase, Ca^{2+}-; Calcium dependent proteinase; (Human) (Au, K.S. (978) 197)

Hemin; ESR; Sialic acid motion; Membrane protein skeletal network; Protein–carbohydrate interaction (Wyse, J.W. (979) 121)

Band 3 protein; Melittin; Polylysine; Zinc ion; Aggregation (Clague, M.J. (980) 93)

Aging; Proteolysis (Gaczyńska, M. (981) 173)

Photodynamic treatment; Leak permeability; Transbilayer mobility; Flip-flop; Phospholipid; (Human) (Deuticke, B. (982) 53)

Band 3 protein; Sulfhydryl reagent; Affinity chromatography; (Human) (Werner, P.K. (982) 309)

Calcium activated neutral proteinase; Proteinase; Localization; Cross-linking (Sakai, K. (985) 51)

Lysolipid; Sugar transport; Lipid–protein interaction; (Human) (Naderi, S. (985) 173)

Spectrin; Cross bonding; Stiffening; (Human) (Fischer, T.M. (985) 218)

Anion transport; Dansyl chloride; Band 3 protein; Cotransport (Berghout, A. (986) 75)

Merocyanine 540; Echinocytosis; Microvesiculation (Allan, D. (986) 115)

Fatty acid; Transport; Flip-flop; Albumin; (Human blood) (Bröring, K. (986) 321)

Rotational dynamics; Spectrin; Cytoskeletal matrix; Time-resolved phosphorescence anisotropy; Phosphorescence (Learmonth, R.P. (987) 124)

Cytolysin; Hemolysin; (Sea anemone) (Doyle, J.W. (987) 181)

Erythrocyte plasma membrane
Calcium pump; ATPase, Ca^{2+}-; Conformational state; Circular dichroism; Fluorescence energy transfer; Fluorescence quenching; (Porcine blood) (Wrzosek, A. (986) 263)

Erythrocyte shape
Membrane; ATP; Zwitterion; Ionic strength; (Human) (Raval, P.J. (983) 230)

Erythroid differentiation
Adriamycin; Globin synthesis; Heme synthesis; (Human erythroleukemic cell) (Trentesaux, C. (1012) 161)

Iron chelator; Desferrioxamine; Liposome; Tumor cell; (Mouse) (Nastruzzi, C. (1013) 36)

D-Erythrose 4-phosphate
DAHP synthase; Inhibition; D-Ribose 5-phosphate (Tianhui, X. (991) 1)

ESR
Calcium extraction; Oxygen evolution; S state; Thermoluminescence; Photosynthesis (Ono, T.-a. (973) 443)

Photosynthesis; Oxygen evolution; Manganese (Andréasson, L.-E. (973) 465)

Photosystem II; Reaction Center; Chlorophyll binding protein; Raman spectroscopy (Ghanotakis, D.F. (974) 44)

Electron spin polarization; Reaction center; Photosynthesis; Deuteration; (*Rb. sphaeroides*) (Feezel, L.L. (974) 149)

Cytochrome *d*; Cytochrome *b*; Electron transport mechanism; Thermodynamics; (*E. coli*) (Meinhardt, S.W. (975) 175)

Cytochrome c_3; Ferredoxin I cross-linking; Electron transfer, intramolecular; Iron-sulfur cluster; Redox potential (Dolla, A. (975) 395)

Liposome; Ultrasound; Phase transition; Deuterium oxide (Ma, L.D. (978) 283)

Hemin; Erythrocyte membrane; Sialic acid motion; Membrane protein skeletal network; Protein–carbohydrate interaction (Wyse, J.W. (979) 121)

Glucose transporter; Anion transport protein; Band 3 protein; Band 4.5; *p*-Azidobenzylphlorizin (Wyse, J.W. (979) 127)

Clathrin; Coated vesicle; Lipid–protein interaction; NMR, ^{31}P-; Fluorescence anisotropy (Privat, J.-P. (979) 257)

Membrane fluidity; Lipid–protein interaction; Brush-border membrane vesicle; Lipid composition; Dietary fatty acid; (Porcine small intestine) (Christon, R. (980) 77)

Poly(ethylene glycol); Membrane fusion; Glycocalyx structure; Volume exclusion; Freeze-fracture; (Human erythrocyte membrane) (Pratsch, L. (980) 146)

Phosphatidylcholine; Planar multibilayer; Spin label; Order parameter; Rotational dynamics (Korstanje, L.J. (980) 225)

Cholesterol; Phosphatidylcholine vesicle; Glycophorin (Tampé, R. (982) 41)

Phospholipid; Curvature; Reorientational dynamics; Cholestane spin label; Lipid vesicle; Hydration (Korstanje, L.J. (982) 196)

Liposomal amphotericin B; Amphotericin B; Phase transition; Freeze-etch; Electron microscopy (Grant, C.W.M. (984) 11)

Lipopolysaccharide-low density lipoprotein complex; Phospholipid packing; Toxin inactivation; Hyperlipidemia; NMR, ^{31}P-; Ultracentrifugation; Fluorescence; (Human) (Victorov, A.V. (984) 119)

Lipid lateral diffusion; Lipid–protein interaction; Myelin basic protein; Spin label (Páli, T. (984) 128)

Prostasome; Phospholipid; Cholesterol; Fatty acid; Spin label; (Human semen) (Arvidson, G. (984) 167)

Glyceroglycolipid; Cholesterol; Liposome membrane (Naito, M. (985) 147)

Alamethicin; Spin label; Voltage-dependent channel; Membrane–peptide interaction; Thylakoid (Wille, B. (986) 47)

Membrane fluidity; Malignant hyperthermia (Ervasti, J.M. (986) 70)

Glycosphingolipid; Ganglioside; Spin label; Liposome; Freeze-etch (Mehlhorn, I.E. (986) 281)

Apocytochrome *c*; Cytochrome *c*; Lysozyme; Polylysine; Peripheral protein; Spin label (Sankaram, M.B. (986) 315)

Lipid–protein interaction; Photosystem II; Spin label; Saturation transfer ESR (Li, G. (987) 187)

Anthracycline; Triplet state; Flash photolysis; Singlet oxygen (Andreoni, A. (990) 190)

Nitroxide metabolism; Oxygen; Ascorbate; (Rat hepatocyte) (Iannone, A. (991) 90)

Bleomycin; Ion-bleomycin complex; Mössbauer; NMR (Levy, A. (991) 97)

Spin trapping; Lipid derived radical; Liposome (Feix, J.B. (992) 230)

Cytochrome c_4; Redox property; NMR; MCD; (*A. vinelandii*) (Gadsby, P.M.A. (994) 37)

β-Lactamase II; Cobalt(II) reconstitution; metalloenzyme; (*B. cereus*) (Myers, J.L. (995) 264)

Hemoglobin; Spin transition; Intramolecular reaction; Temperature jump; Protein dynamics (Steinhoff, H.-J. (996) 49)

Ferredoxin; Iron-sulfur cluster; CD; Protein structure; Urea denaturation; (Spinach) (Ohmori, D. (996) 166)

Nitrosylhemoglobin; R and T conformation; (Human); (Bovine) (Bhuyan, A.K. (997) 36)

Cooperativity; Spin label; Slow transition; Protein modification (Graupe, K. (999) 176)

Calmodulin; Calcium binding; Calcium analog; Fourier transform infrared; (Rat testis) (Rainteau, D. (1011) 81)

Liposome; Catl; Superhyperfine structure; Oxygen concentration (Chan, H.-C. (1014) 141)

Oxygen, intracellular; Selective localization; Nitroxide; Aminoxyl; Nitroxyl (Hu, H. (1014) 211)

ESR Signal II$_s$
Manganese multiline; g tensor (= 4.1); Charge recombination; Activation energy; (Spinach) (Inui, T. (973) 147)

Essential fatty acid
Magnesium deficiency; Cell membrane fatty acid; Fatty acid; Desaturase; (LLC-PK cell) (Mahfouz, M.M. (1006) 70)

Essential histidine
ATPase, H^+-; Transport ATPase; Plasma membrane; Histidine residue; Membrane transport (Morjana, N.A. (985) 19)

Esterastin
Acid cholesteryl ester hydrolase; Neutral cholesteryl ester hydrolase; Cholesteryl oleyl ether; (Aortic smooth muscle cell) (Morin, R.J. (1004) 139)

Esterified cholesterol transfer
Lipid transfer protein; Triacylglycerol transfer; Lipoprotein; HDL; Lipoprotein modification; (Rabbit) (Abbey, M. (1003) 20)

Estrogen
Heat shock protein 90; Estrogen receptor (Iwasaki, M. (992) 1)

Estrogen binding
α-Fetoprotein; Fatty acid; Protein conformation; Immunodetection (Vallette, G. (997) 302)

Estrogen receptor
Heat shock protein 90; Estrogen (Iwasaki, M. (992) 1)

Estrogen receptor gene
Untranslated region (3′-); Restriction enzyme analysis; (Human) (Keaveney, M. (1007) 289)

Ethane
Iron overload; Lipid peroxidation; Glutathione; L-Buthionine (*S,R*)sulfoximine; (Mouse) (Kawabata, T. (1004) 89)

Ethanol
General amino-acid permease; Amino acid transport; Cycloheximide; (*S. cerevisiae*) (Ferreras, J.M. (979) 375)

Anesthesia; Membrane; Fluorescence; Temperature (Hitzemann, R.J. (983) 205)

Infrared spectroscopy; Liver plasma membrane; Membrane order; Interdigitated lipid chain (Lewis, E.N. (986) 161)

Nicotinic acetylcholine receptor; Acetylcholine receptor; Cation flux; Desensitization; (*Torpedo* electroplax) (Forman, S.A. (987) 95)

Acetylcholine receptor; Acetylcholinesterase; Neurotransmission; (*T. californica*) (Baker, G.M. (992) 333)

Carnitine palmitoyltransferase I; Malonyl-CoA; Acetaldehyde; (Rat hepatocyte) (Guzmán, M. (1002) 405)

Phosphatidylcholine metabolism; Lysophosphatidylcholine; Phospholipase A; Vitamin E; (Rat heart) (Choy, P.C. (1005) 225)

Ethanolamine
Phosphatidylethanolamine; Linoleic acid metabolism; (Rat liver) (Imaizumi, K. (1005) 253)

Ethanolamine glycerophospholipid
Phospholipid acyl chain; Choline glycerophospholipid; Acyl chain composition; Dietary modification (Yeo, Y.K. (1001) 25)

Ethanolaminephosphotransferase
Enzyme purification; Lipid dependence; Enzyme reconstitution; (Rat brain microsome) (Roberti, R. (1004) 80)

Ethanolamine plasmalogen
Transacylation; Acyl-CoA : lysophospholipid acyltransferase; 1,2-Diacylglycero-3-phosphoethanolamine; Polyunsaturated fatty acid; (Rat brain microsome) (Masuzawa, Y. (1005) 1)

Ethidium bromide
DNA renaturation; DNA fractionation (Lau, P.P. (1007) 73)

Ethoxylated alcohol
Surfactant; Protein kinase C (Abidi, T.F. (992) 362)

***N*-Ethylbenzisoxazolium ion**
N-Ethylsalicylamide ester; Ammonolysis; Papain (Kooistra, C. (997) 115)

Ethylenediamine
ATPase, Na^+/K^+-; Active site probe (Schuurmans Stekhoven, F.M.A.H. (982) 103)

***N*-Ethylmaleimide**
Potassium ion transport; Peroxide; Hemoglobin; Thiol; Erythrocyte; (Human) (Sheerin, H.E. (983) 65)

Glucose transport; Differential labeling; Glucose carrier sulfhydryl; (Human erythrocyte) (May, J.M. (986) 207)

***N*-Ethylsalicylamide ester**
N-Ethylbenzisoxazolium ion; Ammonolysis; Papain (Kooistra, C. (997) 115)

Etioheme
Myoglobin; Coordination structure; Heme recognition; Oxygen binding (Neya, S. (996) 226)

Etiolated cell
Photosynthesis; Chloroplast development; Photosystem I; Fluorescence decay; Photon counting; (*C. reinhardtii*) (Chan, C.K. (975) 59)

Eukaryotic differentiation
Lymphocyte activation; Mitogen stimulation; Poly(ADP-ribose) polymerase; Northern blotting; (Human) (McNerney, R. (1009) 185)

Eukaryotic DNA replication
DNA replication; Origin of replication (Umek, R.M. (1007) 1)

Eukaryotic initiation factor
Protein synthesis; Protein dephosphorylation; Growth factor; (Ehrlich ascites tumor cell) (Montine, K.S. (1014) 282)

Eukaryotic initiation factor 4D
Polyamine; Deoxyhypusine; Deoxyhypusine hydroxylase; Hypusine; Posttranslational modification; (Eukaryote) (Abbruzzese, A. (997) 248)

Eukaryotic transcription
Transcription factor; Post-translational modification (Berk, A.J. (1009) 103)

Evolution
DNA–protein interaction; Chromatin (Avramova, Z. (1007) 109)

Exchange diffusion
Photoautotrophic suspension cell; Proton/hexose cotransport; (*C. rubrum* L.) (Gogarten, J.P. (978) 43)

Excitation annihilation
Photosynthesis, bacterial; Excitation transfer; Picosecond fluorescence; Fluorescence; Light harvesting antenna; (*Rb. sphaeroides*); (*Chr. minutissimum*) (Freiberg, A. (973) 93)

Energy transfer; Antenna complex; Low temperature; (*R. rubrum*) (Deinum, G. (976) 63)

Excitation energy distribution
Photosystem I; Light state transition; Cytochrome *f* photooxidation; P-700 photooxidation; (Red algae) (Rehm, A.M. (973) 131)

Excitation transfer
Photosynthesis, bacterial; Picosecond fluorescence; Fluorescence; Light harvesting antenna; Excitation annihilation; (*Rb. sphaeroides*); (*Chr. minutissimum*) (Freiberg, A. (973) 93)

Excited triplet state
Phosphorescence; Delayed fluorescence; Anisotropy; Fluorescence (Vanderkooi, J.M. (976) 1)

Exhalation
Mercury; Elemental mercury; Inorganic mercury; Blood; (Lung) (Magos, L. (991) 85)

Exo-α-D-mannosidase
Carbohydrate breakdown; (*Cellulomonas*) (Takegawa, K. (991) 431)

Exocellobiohydrolase
Cellulase; Lactose; Polyclonal antibody; (*T. emersonii*) (Hackett, T.J. (991) 248)

Exocytosis
Adrenal medulla; Stimulus secretion; Chromaffin granule; Protein phosphorylation; Protein kinase C (Brocklehurst, K.W. (979) 157)

Exocytosis, calcium ion dependent
Polymorphonuclear leukocyte; Sodium fluoride; ATP; (Rabbit) (Elferink, J.G.R. (1013) 247)

Exogastrula
Sea urchin; Exogastrula inducing peptide; Gastrulation; Primary structure; (*A. crassispina*) (Suyemitsu, T. (999) 24)

Exogastrula inducing peptide
Sea urchin; Exogastrula; Gastrulation; Primary structure; (*A. crassispina*) (Suyemitsu, T. (999) 24)

Exoglucanase
Oligosaccharide; Glycoprotein; (Yeast) (Ramírez, M. (990) 206)

Glucosidase inhibitor; (Yeast) (Ridruejo, J.C. (993) 179)

Expression
Development; Lipid transport; Cholesterol (Levin, M.S. (1003) 293)

Expression plasmid
recombinant DNA; Isozyme gene; Class I; Aldolase; Glycolytic pathway; Aldolase gene; (Human gene); (*E. coli* host) (Sakakibara, M. (1007) 334)

Extinction coefficient
Photosynthesis; Photosystem II; Cytochrome *b*-559; Reaction center structure (Miyazaki, A. (975) 142)

Extracellular calcium ion
1,2-Diacylglycerol; Inositol phosphate; Compensatory renal growth; (Rat) (Banfić, H. (1002) 273)

Extracellular matrix
Serine proteinase; Calcium; Collagen; Fibronectin; (Malignant hamster embryo fibroblast); (Nil2C2) (Sakiyama, H. (990) 156)

Fibronectin; Bacterial adherence; Collagen; Laminin; (*C. jejuni*) (Kuusela, P. (993) 297)

Vitamin A metabolism; Transforming growth factor; Hepatocyte culture; (Ito cell); (Hepatocyte); (IEC-6 intestinal cell) (Davis, B.H. (1010) 318)

Extracellular side
ATPase, Na^+/K^+-; Phosphorylation; Amine effect; Cytoplasmic side (Van der Hijden, H.T.W.M. (987) 75)

Extrinsic 33 kDa protein
Crosslinking; Nearest neighbor relationship; Oxygen evolution; Mn cluster (Enami, I. (973) 35)

Extrinsic protein
Oxygen evolution; Photosystem II; Light harvesting chlorophyll II; Calcium; (Spinach) (Enami, I. (977) 33)

Oxygen evolution; Photosystem II; Photosynthesis; (Spinach) (Miyao, M. (977) 315)

Extrusion
Phosphatidylcholine, saturated; Large unilamellar vesicle; Liposome preparation (Nayar, R. (986) 200)

F

FAB-MS
Phosphonoglycosphingolipid; Phosphonolipid; *N*-Methylaminoethylphosphonic acid; Trigalactosylceramide; Structure determination; (*T. cornutus*) (Hayashi, A. (1006) 89)

Factor VIII
Protein C, activated; Binding site; Fluorescence energy transfer (Fay, P.J. (994) 142)

Factor X
Thrombin generation; Blood coagulation; (Plasma) (Hemker, H.C. (992) 409)

Fanconi syndrome
Renal development; Succinylacetone; Membrane fluidity; Tyrosinemia (Roth, K.S. (987) 38)

Farber disease
Acid ceramidase; Sphingomyelinase; Glycosphingolipid hydrolase; Lysosomal enzyme; (Human spleen) (Al, B.J.M. (1004) 245)

Fast atom bombardment mass spectrometry
Liposome; Archaebacterium; NMR, ^{1}H-; Membrane morphology (Yamauchi, K. (1003) 151)

Fast kinetics
Valyl-tRNA synthetase; Valine-tRNA ligase; 3′-*O*-Anthraniloyl-ATP; Enzyme-substrate binding; Fluorometric titration; Stopped flow method; (*B. stearothermophilus*) (Kakitani, M. (996) 76)

Fast polymer liquid chromatography
Tyrosine decarboxylase; L-Tyrosine carboxy-lyase; Aromatic-L-amino-acid decarboxylase; Aromatic-L-amino-acid carboxy-lyase; (*S. faecalis*); (Pig kidney) (Børresen, T. (993) 108)

Fat absorption
Lipase inhibitor; Tetrahydrolipstatin; (Rat intestine) (Fernandez, E. (1001) 249)

Fatty acid
Uncoupling; Membrane potential; Proton conductance; Mitochondrion (Schönfeld, P. (977) 266)

D-Glucose; Brush-border membrane; Fish oil; Butter fat; Lipid fluidity; (Rat small intestine) (Brasitus, T.A. (979) 177)

Propionic acid-diphenylhexatriene; Diphenylhexatriene; Fluorescence probe; Membrane probe; Fatty acid binding protein; Albumin (Trotter, P.J. (982) 131)

Arachidonic acid; Calcium ion transport; Phospholipase A_2; (Rat liver mitochondria) (Rustenbeck, I. (982) 147)

Prostasome; Phospholipid; Cholesterol; ESR; Spin label; (Human semen) (Arvidson, G. (984) 167)

ATPase, Na^+/K^+-; ATPase inhibitor; Hydrocarbon; (Bovine plasma) (Tal, D.M. (985) 55)

Erythrocyte membrane; Transport; Flip-flop; Albumin; (Human blood) (Bröring, K. (986) 321)

Hemoglobin; Hemichrome; Lipid peroxidation (Akhrem, A.A. (992) 191)

Catalase (Rosen, G. (994) 264)

α-Fetoprotein; Protein conformation; Estrogen binding; Immunodetection (Vallette, G. (997) 302)

Phosphatidylethanolamine; Acylornithine; Polar lipid; (*P. cepacia*) (Cox, A.D. (1001) 60)

Leukotriene B; Lipoxygenase; (Blood cell); (Rainbow trout) (Pettitt, T.R. (1003) 1)

Nonesterified fatty acid; Lipid peroxidation; Inhibition; (Rat microsome) (Balasubramanian, K.A. (1003) 232)

α-Bromopalmitate; Triacylglycerol; Cholesterol; Fatty acid binding protein; (Rat serum) (Hagve, T.-A. (1004) 143)

Fatty acid analog; Peroxisome proliferation (Berge, R.K. (1004) 345)

Lung surfactant; Phosphatidylcholine; Phosphatidylglycerol; Dexamethasone; Fetal lung maturation; (Fetal rat lung) (Xu, Z.-x. (1005) 209)

Glycerolipid metabolism; Dietary fatty acid; Icosanoid; PAF; (Rat kidney) (Yeo, Y.K. (1006) 9)

Acyl-CoA; Acyl-CoA elongase; Lipid synthesis; (*A. porrum*) (Lessire, R. (1006) 35)

Magnesium deficiency; Cell membrane fatty acid; Essential fatty acid; Desaturase; (LLC-PK cell) (Mahfouz, M.M. (1006) 70)

Glucose oxidation; Diabetes; Heart; Carnitine acyltransferase; Cardiac function (Wall, S.R. (1006) 97)

Glycogen metabolism; Contraction; Glucose; (Porcine vascular smooth muscle) (Barron, J.T. (1012) 69)

(*n* − 3) Fatty acid
Coronary heart disease; Icosapentaenoic acid; (Rat enterocyte) (Chernenko, G.A. (1004) 95)

Neutrophil; Phospholipid; Arachidonic acid; Glycerophospholipid; Transacylation; (Human neutrophil) (MacDonald, J.I.S. (1004) 151)

***trans*-Fatty acid**
Linoleic acid metabolism; α-Linolenic acid; Arachidonic acid; Desaturation; Dietary fat; Polyunsaturated fatty acid; (Rat) (Zevenbergen, J.L. (1002) 312)

Fatty acid analog
Fatty acid oxidation; Peroxisomal β-oxidation; Beta oxidation; (Morris hepatoma cell line) (Spydevold, (1003) 72)

Fatty acid; Peroxisome proliferation (Berge, R.K. (1004) 345)

Fatty acid binding protein
Propionic acid-diphenylhexatriene; Diphenylhexatriene; Fluorescence probe; Membrane probe; Fatty acid; Albumin (Trotter, P.J. (982) 131)

α-Fetoprotein; Immunoassay; Postnatal development; Lipid metabolism; (Rat tissue) (Paulussen, R.J.A. (1001) 201)

Fatty acid transfer; Fatty acid oxidation; Monolayer; (Human); (Rat) (Peeters, R.A. (1002) 8)

ELISA; Subcellular distribution; Mitochondrion; Nucleus; (Bovine heart) (Börchers, T. (1002) 54)

Glucose-6-phosphate dehydrogenase; Ontogeny; Gestation; (Human fetal liver) (Das, T. (1002) 164)

α-Bromopalmitate; Fatty acid; Triacylglycerol; Cholesterol; (Rat serum) (Hagve, T.-A. (1004) 143)

Fatty acid biosynthesis
β-Ketoacyl-ACP synthase; (Oilseed rape); (*B. napus*) (MacKintosh, R.W. (1002) 114)

Fatty acid chain length
Triacylglycerol hydrolase; Fatty acid specificity; Enzyme kinetics (Rangheard, M.-S. (1004) 20)

Fatty acid composition
Linoleic acid; Mitogen stimulation; (Human lymphocyte) (Shires, S.E. (1002) 74)

Proliferation; Phosphatidylcholine; Lysophospholipid acyltransferase; Phospholipid metabolism; Isoproterenol; (Rat submandibular gland) (Yashiro, K. (1005) 56)

Fatty acid desaturase; Lipid composition; Phytosterol; Membrane fluidity; (Rat liver microsome) (Leikin, A.I. (1005) 187)

Fatty acid desaturase
Fatty acid composition; Lipid composition; Phytosterol; Membrane fluidity; (Rat liver microsome) (Leikin, A.I. (1005) 187)

Fatty acid elongation
Condensation; Lipid–protein interaction; Phospholipase A_2; Free fatty acid (Yoshida, S. (1004) 239)

Fatty acid metabolism
Chiral phase HPLC; GC-MS; Lipoxygenase; Prostasome; (Male fertility); (Human) (Oliw, E.H. (1002) 283)

Carnitine; Acylcarnitine; Ketogenesis; (Rat hepatocyte) (Brass, E.P. (1003) 209)

Palmitic acid; Erucic acid; (Pig heart) (Sauer, F.D. (1004) 205)

Propionyl-CoA thioesterase; Acyl-CoA hydrolase; Mitochondrion; (Rat brown adipose) (Alexson, S.E.H. (1005) 13)

Fatty acid uptake; Arrhenius relationship; Long chain fatty acids; (Ascite tumor cell) (Haeffner, E.W. (1005) 27)

Alkylthioacetic acid; (Hepatocyte) (Skrede, S. (1005) 296)

Carrier mediated transport; Membrane fatty acid binding protein; Human hepatoma cell line (Stremmel, W. (1013) 218)

Fatty acid oxidation
Polyunsaturated fatty acid; Fatty acid uptake; Desaturation; Chain elongation; Cardiac myocyte; (Rat heart) (Hagve, T.-A. (1001) 338)

Fatty acid binding protein; Fatty acid transfer; Monolayer; (Human); (Rat) (Peeters, R.A. (1002) 8)

Peroxisomal β-oxidation; Beta oxidation; Fatty acid analog; (Morris hepatoma cell line) (Spydevold, (1003) 72)

Lipid metabolism; (Morris hepatoma cell line) (Spydevold, (1003) 80)

Cardiac hypertrophy; Carnitine transport; [^{14}C]Carbon dioxide production; Carnitine–acylcarnitine translocase; (Rat heart) (El Alaoui-Talibi, Z. (1003) 109)

Lauric acid; Myristic acid; Octanoic acid; Mitochondrion; (Rat hepatocyte); (Peroxisome) (Christensen, E. (1004) 187)

Fatty acid specificity
Triacylglycerol hydrolase; Enzyme kinetics; Fatty acid chain length (Rangheard, M.-S. (1004) 20)

Fatty acid synthase
Affinity labeling; Enzyme kinetics; Enzyme inactivation (Tian, W.-X. (998) 310)

Lung surfactant; mRNA; Acetyl-CoA; ATP citrate lyase; Malic enzyme; (Rat lung) (Batenburg, J.J. (1006) 329)

Fatty acid transfer
Fatty acid binding protein; Fatty acid oxidation; Monolayer; (Human); (Rat) (Peeters, R.A. (1002) 8)

Fatty acid transport
Lipid transport; Golgi complex; Monensin; (Leek seed) (Bertho, P. (978) 91)

Fatty acid uptake
Polyunsaturated fatty acid; Fatty acid oxidation; Desaturation; Chain elongation; Cardiac myocyte; (Rat heart) (Hagve, T.-A. (1001) 338)

Sex related difference; (Liver) (Noy, N. (1003) 125)

Fatty acid metabolism; Arrhenius relationship; Long chain fatty acids; (Ascite tumor cell) (Haeffner, E.W. (1005) 27)

High density lipoprotein; Cholesteryl ester; Polyunsaturated fatty acid; (Rat hepatocyte) (Pepin, D. (1006) 52)

Fatty acylation
Platelet protein; Platelet activation; Palmitoylation; Protein (Huang, E.M. (1011) 134)

Fatty acyl-CoA oxidase
Dicarboxylic acid; Peroxisome; Beta oxidation; Substrate inhibition (Poosch, M.S. (1006) 291)

Fc receptor
Monoclonal antibody; LDL; Cholesterol; (U937 cell) (Bigler, R.D. (1011) 102)

Ferredoxin
Glutamate synthase; Protein–protein interaction (Hirasawa, M. (977) 150)

Proteolytic cleavage; (*C. pasteurianum*) (Skjeldal, L. (995) 59)

Iron-sulfur cluster; ESR; CD; Protein structure; Urea denaturation; (Spinach) (Ohmori, D. (996) 166)

Iron-sulfur cluster; CD; Protein structure; Urea denaturation; (Spinach) (Hasumi, H. (996) 173)

Ferredoxin I cross-linking
Cytochrome c_3; ESR; Electron transfer, intramolecular; Iron-sulfur cluster; Redox potential (Dolla, A. (975) 395)

Ferric leghemoglobin
Proton dependency; Nicotinate (Atanasov, B.P. (998) 80)

Ferricyanide
Erythrocyte; Passive cation transport; Permeability, sodium/potassium ion; Iodoacetate; *p*-Chloromercuribenzenesulfonate; Ionophore A23187; (Human) (Fuhrmann, G.F. (983) 179)

Cyanocytochrome *c*; Photodecomposition; Raman resonance (Chottard, G. (997) 155)

Ferritin
Phytoferritin; Metal binding; Nonferrous metal; Synthetic iron core (Sczekan, S.R. (990) 8)

Iron removal; DL-Dihydrolipoate (Bonomi, F. (994) 180)

Transferrin receptor; Iron transport; (Murine mammary gland) (Schulman, H.M. (1010) 1)

Apotransferrin; Iron chelator; Chloroquine; (Rat hepatocyte) (Sibille, J.-C. (1010) 204)

Ferritin receptor; Iron metabolism; (Rat hepatocyte) (Osterloh, K. (1011) 40)

Ferritin receptor
Ferritin; Iron metabolism; (Rat hepatocyte) (Osterloh, K. (1011) 40)

Ferrochelatase
Porphyrin; Metalloporphyrin; Active site; (Mouse) (Dailey, H.A. (999) 7)

Fertilization
In vitro fertilization; Single cell rotation; Microvilli; Membrane capacity; Membrane resistivity; Electrorotation; (Zona pellucida) (Arnold, W.M. (979) 142)

Fetal globin gene
Promoter mutation; DNA amplification; Transient expression; DNA sequencing; (K562 cell); (Human cell line) (Lanclos, K.D. (1008) 109)

Fetal lipogenesis
Primary culture; Hormonal effect; (Rat hepatocyte) (Roncero, C. (1012) 320)

Fetal lung
Epidermal growth factor; Lung development; Fibroblast pneumocyte factor; Pulmonary surfactant (Nielsen, H.C. (1012) 201)

Fetal lung maturation
Lung surfactant; Fatty acid; Phosphatidylcholine; Phosphatidylglycerol; Dexamethasone; (Fetal rat lung) (Xu, Z.-x. (1005) 209)

α-Fetoprotein
Fatty acid; Protein conformation; Estrogen binding; Immunodetection (Vallette, G. (997) 302)

Fatty acid binding protein; Immunoassay; Postnatal development; Lipid metabolism; (Rat tissue) (Paulussen, R.J.A. (1001) 201)

Gene expression; Albumin; Thyroid hormone; Triiodothyronine; (Human hepatoma cell) (Conti, R. (1008) 315)

Fetus
Insulin; Insulin receptor; (Rat liver) (Gruppuso, P.A. (1010) 270)

Fibril diameter
Collagen; Cyanogen bromide fragment; Hydroxylysine glycoside; Transparency; (Bovine cornea) (Ibrahim, J. (992) 9)

Fibrin
Tissue plasminogen activator; Enzyme activity; Clot binding (Lavie, E. (991) 62)

Thrombolysis; t-PA; NMR; Compartmentalized water; Plasminogen activator (Azoury, R. (995) 295)

Fibrin gel structure; Microscopy; Permeability; Turbidity (Blombäck, B. (997) 96)

Fibrinogen; Protein phosphorylation; Protein kinase (Šonka, J. (997) 268)

Fibrin formation
Fibrinogen; Fibrinopeptide B; (Snake venom) (Dyr, J.E. (990) 18)

Fibrin gel structure
Fibrin; Microscopy; Permeability; Turbidity (Blombäck, B. (997) 96)

Fibrinogen
Glycoprotein; GP IIb-IIIa; Platelet activation; cyclic AMP; Inositol phosphate; Protein phosphorylation (Sinigaglia, F. (984) 225)

Fibrinopeptide B; Fibrin formation; (Snake venom) (Dyr, J.E. (990) 18)

Calcium binding; [A]α chain; Surface labeling; Crosslinking (Apap-Bologna, A. (995) 70)

Fibrin; Protein phosphorylation; Protein kinase (Šonka, J. (997) 268)

Fibrinolysis
Plasminogen activator inhibitor 1; Vitronectin; Protein–protein interaction; Fibrosarcoma; (Fibrosarcoma cell-line HT1080) (Lindahl, T. (994) 253)

Fibrinopeptide B
Fibrinogen; Fibrin formation; (Snake venom) (Dyr, J.E. (990) 18)

Fibroblast pneumocyte factor
Epidermal growth factor; Lung development; Fetal lung; Pulmonary surfactant (Nielsen, H.C. (1012) 201)

Fibronectin
Serine proteinase; Calcium; Collagen; Extracellular matrix; (Malignant hamster embryo fibroblast); (Nil2C2) (Sakiyama, H. (990) 156)

5′-Nucleotidase; Laminin; (Chicken gizzard) (Stochaj, U. (992) 385)

Collagen; Smooth muscle cell; Heparin fragment; Biosynthesis; Modulation; (Pig) (Asselot-Chapel, C. (993) 240)

Bacterial adherence; Extracellular matrix; Collagen; Laminin; (*C. jejuni*) (Kuusela, P. (993) 297)

Fibrosarcoma
Plasminogen activator inhibitor 1; Fibrinolysis; Vitronectin; Protein–protein interaction; (Fibrosarcoma cell-line HT1080) (Lindahl, T. (994) 253)

Filamentous cyanobacterium
Mass spectrometry; Photosystem II; Respiration; Hydrogen peroxide; (*O. chalybea*) (Bader, K.P. (974) 303)

S-state system; Oxygen evolving complex; Stabilizer; Photosynthesis (Bader, K.P. (975) 399)

Filipin
Polyene antibiotic; Phosphatidylcholine; Dimyristoylphosphatidylcholine; Large unilamellar vesicle; Circular dichroism (Milhaud, J. (987) 193)

Finger structure
Gene A protein; DNA sequence; (*Microviridae*) (Kodaira, K.-I. (1008) 123)

Fish oil
D-Glucose; Brush-border membrane; Butter fat; Lipid fluidity; Fatty acid; (Rat small intestine) (Brasitus, T.A. (979) 177)

Linseed oil; Triacylglycerol; $n-3$ fatty acid; Hypotriglyceridemia; (Rat) (Garg, M.L. (1006) 127)

LDL; Angiotensin II; Inositol polyphosphate; Thromboxane A_2; Vascular smooth muscle cell (Locher, R. (1012) 279)

Flash photolysis
Anthracycline; Triplet state; ESR; Singlet oxygen (Andreoni, A. (990) 190)

Ionic strength dependence; Anion radical; Electric charge distribution; Reaction rate (Egawa, T. (995) 207)

Flavin
Plasma membrane; Riboflavin; Autofluorescence; Fluorescence photobleaching recovery; FRAP; (Rat liver) (Nokubo, M. (981) 303)

Flavoprotein
Electron transfer; Mitochondrion; Enoyl-CoA reduction; Protein purification; (*A. suum*) (Komuniecki, R. (975) 127)

NADH : quinone reductase; Respiratory chain; NADH-dehydrogenase; (*E. coli*) (Hayashi, M. (977) 62)

p-Hydroxybenzoate hydroxylase; Hydroxylase; Oxygenase (Entsch, B. (999) 313)

Riboflavin deficiency; Mitochondrion; Peroxisome; Acyl-CoA; Organic acid; (Rat) (Veitch, K. (1006) 335)

Flavoprotein redox reaction
Glutathione reductase; Electron transfer; Quinone/NADPH oxidation (Čénas, N.K. (973) 399)

Flip-flop
Erythrocyte membrane; Photodynamic treatment; Leak permeability; Transbilayer mobility; Phospholipid; (Human) (Deuticke, B. (982) 53)

Fatty acid; Erythrocyte membrane; Transport; Albumin; (Human blood) (Bröring, K. (986) 321)

Flotation property
Apolipoprotein synthesis; Lipoprotein assembly; Hepatocyte; (Rat) (Hussain, M.M. (1001) 90)

Flow cytometry
Cell permeabilization; Merocyanine; Ultraviolet irradiation; Photobleaching; FRAP; (Mouse spleen) (Szabo Jr., G. (979) 365)

Glycophorin; CD4; Erythrocyte; Membrane–protein interaction; Immunoelectron microscopy (Arvinte, T. (981) 51)

Flow electrophoresis
Electrokinetics; Platelet heterogeneity; Taxol; (Human) (Crook, M. (1014) 26)

Flow flash spectrophotometry
Cytochrome oxidase; Electron transfer; Oxygen intermediate; pH dependence; Temperature dependence (Oliveberg, M. (977) 322)

Fluctuation analysis
Myelinated nerve; Sodium ion channel; Tetrodotoxin; Saxitoxin; (Frog) (Lönnendonker, U. (985) 161)

Fluidity
Digalactosyldiacylglycerol; Phosphatidylcholine; Permeability; Unilamellar vesicle; Thylakoid (Webb, M.S. (984) 41)

Fluid secretion
Cation permeability; Paracellular transport; (Rabbit pancreas) (Kuijpers, G.A.J. (984) 63)

Pancreas model; Control analysis; Nonequilibrium thermodynamics; Thermodynamics (Kuijpers, G.A.J. (984) 71)

Fluorescein
Zinc ion; ATPase, $(Ca^{2+} + Mg^{2+})$-; Sarcoplasmic reticulum (Henao, F. (984) 135)

Fluorescein dilaurate
Cholesterol esterase; Tetrameric enzyme molecule; Nitrophenyl ester; Rhodamine 6G; (Human pancreas) (Meyer, J.G. (1002) 89)

Fluorescein isothiocyanate
ATPase, $(Ca^{2+} + Mg^{2+})$-; *N*-Cyclohexyl-*N'*-(4-dimethylamino-1-naphthyl)carbodiimide; Spin label; Calcium binding site; (Rabbit skeletal muscle) (Munkonge, F. (979) 113)

Fluorescence
Photosynthesis, bacterial; Excitation transfer; Picosecond fluorescence; Light harvesting antenna; Excitation annihilation; (*Rb. sphaeroides*); (*Chr. minutissimum*) (Freiberg, A. (973) 93)

Phycoerythrin 566; Biliprotein; Photosynthetic pigment; Energy migration; Cryptoviolin (Guard-Friar, D. (973) 118)

Energy transfer; Photosynthesis; Phycobilisome; Picosecond spectroscopy; (Cyanobacterium); (*A. variabilis* (M-3)) (Mimuro, M. (973) 153)

Bacteriochlorophyll; Photosynthesis; Gel electrophoretic filtration; Chlorosome isolation; (*C. aurantiacus*) (Griebenow, K. (973) 235)

State transition; Linear dichroism; Photosynthesis; Phycobilisome; (*P. cruentum*); (*Synechococcus* sp. PCC 6301) (Brimble, S. (973) 315)

LHC II; Chloroplast; Phosphorylation; Protein kinase; Photosystem II; (Spinach leaf) (Islam, K. (974) 261)

ATP-γ-S; Thylakoid; Chloroplast; Phosphorylation; Photosystem II; (Spinach leaf) (Islam, K. (974) 267)

Photosynthesis; Bacterial photosynthesis; Energy transfer; Picosecond spectroscopy; Bacteriochlorophyll; (*Rb. sphaeroides*) (Shimada, K. (975) 72)

Phosphorescence; Excited triplet state; Delayed fluorescence; Anisotropy (Vanderkooi, J.M. (976) 1)

ATPase, F_1-; Temperature dependence; Enzyme conformation; Nucleotide binding site; Enzyme kinetics (Baracca, A. (976) 77)

Phase separation; Lipophile; Bilayer; NK-529; Cyanine dye (Yu, B.-Z. (980) 15)

Phospholipid mixture; Melittin; Phase separation; Lipid–protein interaction; Raman spectroscopy (Lafleur, M. (980) 85)

Phospholipid vesicle; Dehydroergosterol; Cholesterol analog (Bar, L.K. (983) 109)

Protein 4.1; Spectrin; Actin; Hemin; Circular dichroism (Solar, I. (983) 199)

Anesthesia; Ethanol; Membrane; Temperature (Hitzemann, R.J. (983) 205)

Lipopolysaccharide-low density lipoprotein complex; Phospholipid packing; Toxin inactivation; Hyperlipidemia; ESR; NMR, ^{31}P-; Ultracentrifugation; (Human) (Victorov, A.V. (984) 119)

α-Tocopherol; Lateral diffusion; Phospholipid vesicle (Aranda, F.J. (985) 26)

pH indicator; Emission ratio; Phospholipid vesicle; Kinetics (Knight, C.G. (985) 75)

Lipid polymorphism; Non-bilayer; Cardiolipin; Hexagonal H_{II} phase (Stubbs, C.D. (986) 89)

Oxazolone; 4-Alkylidene oxazolone; Hydrolase; Active site (Baese, H.-J. (990) 113)

Thyroid hormone; 3,3′,5′-Triiodo-L-thyronine; Reverse T_3; Bovine serum albumin (Okabe, N. (990) 303)

Time resolved fluorescence; Polydeoxynucleotide (Barcellona, M.L. (993) 174)

Diabetes mellitus; Activity; Nonenzymatic glycosylation (Hall, P.K. (993) 217)

Glycerol dehydrogenase; Metalloprotein; Stereospecificity (Spencer, P. (994) 270)

Horseradish peroxidase; Protoporphyrin IX (Jullian, C. (997) 206)

Crotoxin homolog; Secondary structure; Circular dichroism; Fourier transform infrared spectroscopy (Aird, S.D. (997) 211)

Bradykinin; Cerebroside sulfate; Phosphatidylinositol; Peptide–lipid interaction (Rao, A.G.A. (997) 278)

Tryptophan; 3-Phosphoglycerate kinase (Dryden, D.T.F. (997) 313)

Collagen; Crosslinking; Collagen degradation; Glycation; Glucose (Fujimori, E. (998) 105)

Bean storage protein; Circular dichroism; Derivative spectroscopy; Proteolysis; Quenching; Surface hydrophobicity (Deshpande, S.S. (998) 179)

Platelet aggregation; Calcium ion mobilization; Structure–activity relationship; Phenol derivative; (Bovine platelet) (Kitagawa, S. (1011) 52)

Anthracycline; Kinetics; Nuclear concentration; (Human lymphocyte) (Tarasiuk, J. (1013) 109)

Fluorescence anisotropy
Chlorophyll *a*; Chlorophyll *b*; Overlapping bands; Castor oil (Van Gurp, M. (973) 405)

Plasmalogen deficiency; Membrane fluidity; Lipid mobility; (Human skin fibroblast) (Hermetter, A. (978) 151)

Clathrin: Coated vesicle; Lipid–protein interaction; ESR; NMR, ^{31}P- (Privat, J.-P. (979) 257)

Phosphatidylcholine vesicle; Calcium adsorption; Mixed bilayer; Calcium ion asymmetry (Bakás, L.S. (979) 352)

Polyene antibiotic; Membrane binding; Membrane fluidity; Fluorescence probe; Thymocyte (Henry-Toulmé, N. (982) 245)

Phosphatidylcholine vesicle; Cytochrome b_5; Cytochrome-b_5 reductase (Pugh, E.L. (985) 255)

Cholesterol; Cholestenone; Phospholipid; Liposome; Membrane; Fluorescent probe (Ben-Yashar, V. (985) 271)

Dietary fatty acid; Membrane fluidity; Platelet activation; Thromboxane; (Rat platelet) (Heemskerk, J.W.M. (1004) 252)

Fluorescence anisotropy, steady-state
Phosphatidylethanolamine; Phase transition; Crosslinking; Dimethylsuberimidate; *cis*-Parinaric acid (Roth, M.R. (986) 217)

Fluorescence decay
Photosynthesis; Etiolated cell; Chloroplast development; Photosystem I; Photon counting; (*C. reinhardtii*) (Chan, C.K. (975) 59)

Fluorescence emission
Absorption spectroscopy; Chlorophyll protein; Chloroplast; Electron microscopy; Immunocytochemistry; P-700 (Simpson, D.J. (975) 164)

Fluorescence energy transfer
Liposome fusion; Cationic detergent; Biotin; Avidin; Chaotropic ion (Keren-Zur, M. (983) 253)

Erythrocyte plasma membrane; Calcium pump; ATPase, Ca^{2+}-; Conformational state; Circular dichroism; Fluorescence quenching; (Porcine blood) (Wrzosek, A. (986) 263)

Factor VIII; Protein C, activated; Binding site (Fay, P.J. (994) 142)

Fluorescence induction
Optical cross section; Poisson distribution; Trap; Reaction center; Single turnover flash; Quantum requirement; Energy transfer; Antenna, light-harvesting; Pigment protein (Mauzerall, D. (974) 119)

Photosystem II; Chlorophyll fluorescence; DCMU (Hsu, B.-D. (975) 44)

Fluorescence photobleaching recovery
Plasma membrane; Flavin; Riboflavin; Autofluorescence; FRAP; (Rat liver) (Nokubo, M. (981) 303)

Fluorescence polarization
Parinaric acid; Lipid state; Lipid bilayer vesicle; Membrane fragment; Freeze-thawing; (*E. coli*) (Souzu, H. (978) 105)

Freeze-thawing; Parinaric acid; Lipid state; Dehydration; (*E. coli*) (Souzu, H. (978) 112)

Lindane; Insecticide–membrane interaction; Fluorescence probe; Membrane fluidity; Cholesterol (Antunes-Madeira, M.C. (982) 161)

Membrane vesicle; Unilamellar vesicle; Cholesterol; NMR, ^{1}H-; NMR, ^{13}C-; Phospholipid bilayer (Bhakuni, V. (982) 216)

Malate dehydrogenase; NADH; Time resolved fluorescence (Jameson, D.M. (994) 187)

Dipalmitoylphosphatidylcholine; Phospholipid; Squeeze-out; Gel-to-liquid crystal transformation; Surface activity (Egberts, J. (1002) 109)

Fluorescence probe
Organic anion binding; Rose bengal; Sinusoidal membrane vesicle; Canalicular membrane vesicle; (Rat liver) (Yachi, K. (978) 1)

Propionic acid-diphenylhexatriene; Diphenylhexatriene; Membrane probe; Fatty acid; Fatty acid binding protein; Albumin (Trotter, P.J. (982) 131)

Lindane; Insecticide–membrane interaction; Fluorescence polarization; Membrane fluidity; Cholesterol (Antunes-Madeira, M.C. (982) 161)

Polyene antibiotic; Membrane binding; Membrane fluidity; Thymocyte; Fluorescence anisotropy (Henry-Toulmé, N. (982) 245)

Fluorescence quenching
Chlorophyll fluorescence; Anthraquinone; Benzoquinone; Naphthoquinone; (Barley chloroplast) (Karukstis, K.K. (973) 124)

Chlorophyll; Quantum yield; Non-photochemical quenching; Photosynthesis; (Barley) (Quick, W.P. (977) 287)

Photosensitizer; Porphyrin; Liposome; Membrane–dye interaction; Spin label (Gross, E. (983) 118)

Erythrocyte plasma membrane; Calcium pump; ATPase, Ca^{2+}-; Conformational state; Circular dichroism; Fluorescence energy transfer; (Porcine blood) (Wrzosek, A. (986) 263)

Carbon assimilation; Chlorophyll fluorescence; Electron transport; Photosystem II; Quantum yield (Genty, B. (990) 87)

Antibody–hapten interaction; Phosphorylcholine; Intrinsic fluorescence; Derivative spectroscopy; Monoclonal antibody (Urbaneja, M.-A. (998) 85)

Melittin; Ascorbate; Protein conformation (Meucci, E. (999) 58)

Fluorescence ratio microscopy
pH, intracellular; Proton extrusion; (Mouse pancreatic β-cell) (Grapengiesser, E. (1014) 219)

Fluorescence spectroscopy
Adriamycin; Anthracycline; Phospholipid; Liposome; Equilibrium binding (Burke, T.G. (982) 123)

LDL; Phospholipid; Lipid fluidity; (Human) (Vauhkonen, M. (984) 81)

Discoidin I; Calcium binding; Sugar binding; Sugar binding site; (*D. discoideum*) (Valencia, A. (990) 93)

Fluorescence titration
Albumin–bile salt interaction; Bile salt; Binding; Thermodynamics (Pico, G.A. (999) 128)

Fluorescence, trifluoperazine
Circular dichroism, induced; Trifluoperazine fluorescence; S100 protein; Calcium ion binding protein (Ogoma, Y. (997) 188)

Fluorescent lipid
Fluorescent probe; Phospholipid; Sterol; Membrane probe; Lateral diffusion; Lucifer yellow-lipid conjugates (Nothnagel, E.A. (980) 209)

Fluorescent peptide
Amphipathic antimicrobial peptide; Alpha-helical peptide; Pyrenylalanine; Tryptophan fluorescence; Peptide–lipid interaction; Peptide–peptide interaction (Lee, S. (984) 174)

Fluorescent phospholipid
Phospholipid transfer protein; Phosphatidylcholine; Phosphatidylinositol; Membrane fluidity; Membrane charge; (Yeast) (Szolderits, G. (986) 301)

Fluorescent probe
Fluorescent lipid; Phospholipid; Sterol; Membrane probe; Lateral diffusion; Lucifer yellow-lipid conjugates (Nothnagel, E.A. (980) 209)

Cholesterol; Cholestenone; Phospholipid; Liposome; Membrane; Fluorescence anisotropy (Ben-Yashar, V. (985) 271)

Prostacyclin; Prostaglandin; Dichloroaminophenol iloprost (Tsai, A.-l. (993) 74)

pH, intracellular; NMR, ^{31}P-; (Crab egg) (Goudeau, M. (1014) 14)

Fluorescent sulfatide
Arylsulfatase A; Pyrenecerebroside sulfate; (Human leukocyte) (Marchesini, S. (1002) 14)

Pyrene cerebroside sulfate; Sulfatide uptake; Metachromatic leukodystrophy (Viani, P. (1002) 20)

Fluorescent triacylglycerol
Multisystemic lipid storage myopathy; Triacylglycerol degradation; Triacylglycerol lipase; (Human lymphoid cell line) (Radom, J. (1005) 130)

Fluoride
Pyrophosphate; Fructose 2,6-bisphosphate; Sucrose synthesis; Photosynthesis; (Spinach) (Quick, P. (973) 263)

Fluoroaluminate
cyclic GMP; Nitroprusside; Calcium ion flux; Protein kinase C; (Human platelet) (Deana, R. (1014) 203)

Fluorometric titration
Valyl-tRNA synthetase; Valine-tRNA ligase; 3′-*O*-Anthraniloyl-ATP; Enzyme-substrate binding; Fast kinetics; Stopped flow method; (*B. stearothermophilus*) (Kakitani, M. (996) 76)

Fluorometry
Lipid peroxidation; Protein conformation; *N*-(1-Pyrene)maleimide; Brush-border membrane; (Porcine small intestine) (Ohyashiki, T. (981) 235)

Lanthionine ketimine; Sulfur imino acid; (Brain) (Ricci, G. (990) 211)

Pyrenemethyl laurate; Pyrenemethanol; Lipase activity (Nègre, A. (1006) 84)

Fluorouracil metabolism
NMR, ^{19}F-; Metabolic pathway; (*E. coli*) (Lee, K.R. (1011) 12)

Flux control coefficient
Metabolic regulation; Enzyme elasticity (Barrett, J. (992) 369)

Flux measurement
Calcium activated potassium ion channel; Potassium ion channel; Patch clamp; Propanolol; (Human erythrocyte) (Schwarz, W. (978) 32)

Flux voltage equation
Ion leak; Energy transducing membrane; Permeability coefficient; Non-ohmic behavior; Electrical gradient (Garlid, K.D. (976) 109)

Folate binding protein
Hydrophobic folate binding protein; Hydrophilic folate binding protein; (Human erythrocyte) (Antony, A.C. (979) 62)

Folylpolyglutamate
Bifunctional enzyme; Formiminotransferase-cyclodeaminase; Enzyme kinetics; (Pig liver) (Findlay, W.A. (999) 52)

Footprint analysis
Adenovirus E1A gene; Cell-free transcription; Transcriptional control (Shibata, H. (1007) 184)

Fork displacement rate
DNA replication; Temperature sensitivity; (Chinese hamster ovary cells) (Wong, R.S.L. (1007) 224)

Formaldehyde
Chemical crosslinking; Glucocorticoid receptor; (HeLa cells) (Rossini, G.P. (1011) 183)

Formiminotransferase-cyclodeaminase
Bifunctional enzyme; Folylpolyglutamate; Enzyme kinetics; (Pig liver) (Findlay, W.A. (999) 52)

Formycin B
Nucleoside transport; Cultured mammalian cell; (Human erythrocyte) (Plagemann, P.G.W. (1010) 7)

Formycin inhibition
RNA synthesis; Development; Starfish embryo; Blastulation; (*A. pectinifera*) (Isomura, H. (1007) 343)

***N*-Formylkynurenine**
Human lens; γ-Crystallin; Oxidation; Hydrogen peroxide; Cataract; Photosensitizer; Superoxide (Andley, U.P. (997) 284)

***N*-Formyl peptide**
Protein identification; Cosedimentation; (Human); (Neutrophil) (Allen, R.A. (991) 123)

***N*-Formyl peptide receptor**
GTP binding protein; Phospholipid vesicle; Reconstitution; Detergent extraction (Cupo, J.F. (982) 31)

Forskolin
Energy metabolism; cyclic AMP synthesis; Proteoglycan synthesis (Hu, L.-M. (1013) 294)

Fourier transform infrared
ESR; Calmodulin; Calcium binding; Calcium analog; (Rat testis) (Rainteau, D. (1011) 81)

Fourier transform infrared difference spectroscopy
Bacteriorhodopsin; M_{412} intermediate; Photoselection; Retinal (Breton, J. (973) 13)

Fourier transform infrared spectroscopy
Resonance Raman; Pheophorbide; Chlorophyll (Andersson, L.A. (974) 163)

ATPase, Ca^{2+}-; Sarcoplasmic reticulum; Secondary structure; (Rabbit) (Villalain, J. (978) 305)

Hydrogen bonding; Cholesterol; Phosphatidylcholine (Wong, P.T.T. (980) 37)

ω-Cyclohexyl fatty acid; Phosphatidylcholine; Lipid; Thermotropic phase behavior (Mantsch, H.H. (980) 42)

Dipalmitoylphosphatidylcholine; Model membrane; Free fatty acid; Resonance energy transfer (McKersie, B.D. (982) 156)

Phosphatidylserine; Unsaturated fatty acid chain; Magnesium ion complex; Hydration; NMR, ^{31}P- (Casal, H.L. (982) 228)

ATPase, Ca^{2+}-; Sarcoplasmic reticulum (Buchet, R. (983) 167)

Detergent; Phospholipid vesicle; Critical micellar concentration; DSC; Freeze-fracture (Bayerl, T.M. (984) 214)

Hexagonal H_{II} phase; Trehalose; Dioleoylphosphatidylethanolamine; DSC; X-ray diffraction (Wistrom, C.A. (984) 238)

Bacterial cell surface; Molecular surface composition; Transmission infrared spectroscopy; X-ray photoelectron spectroscopy (XPS) (Van der Mei, H.C. (991) 395)

Crotoxin homolog; Secondary structure; Fluorescence; Circular dichroism (Aird, S.D. (997) 211)

Franck-Condon factor
Superexchange mechanism; Reaction center; Photosynthesis; Charge separation; Quantum mechanics (Bixon, M. (977) 273)

FRAP
Cell permeabilization; Merocyanine; Ultraviolet irradiation; Flow cytometry; Photobleaching; (Mouse spleen) (Szabo Jr., G. (979) 365)

Plasma membrane; Flavin; Riboflavin; Autofluorescence; Fluorescence photobleaching recovery; (Rat liver) (Nokubo, M. (981) 303)

Free energy perturbation
Equilibrium constant; Imidazole, substituted; Molecular orbital calculation (Worth, G.A. (993) 134)

Free energy transduction
Magainin; Vertebrate peptide antibiotics; Membrane potential; Mitochondrial oxidative phosphorylation; Uncoupler; PGLa; (*X. laevis*) (Westerhoff, H.V. (975) 361)

Free fatty acid
Transition temperature; Liposome stability (Crowe, J.H. (979) 7)

Dipalmitoylphosphatidylcholine; Model membrane; Resonance energy transfer; Fourier transform infrared spectroscopy (McKersie, B.D. (982) 156)

Fatty acid elongation; Condensation; Lipid–protein interaction; Phospholipase A_2 (Yoshida, S. (1004) 239)

Free fatty acid metabolism
L-Carnitine; Palmitoylcarnitine; Membrane fluidity; Spin label; Erythrocyte; (Human) (Kobayashi, A. (986) 83)

Free radical
Phospholipid; Ubiquinone; Ultrasonic irradiation; Sonolysis; Vesicle (Landi, L. (984) 21)

Superoxide dismutase; Poly(ethylene glycol); Spin trapping; (Human neutrophils) (Pou, S. (991) 459)

DNA oxidation; Guanyl radical; Antioxidant; DNA repair (Jovanovic, S.V. (1008) 39)

Free radical formation
Mitomycin C; Cardiac microsome; Antitumor drug; (Perfused rat heart) (Politi, P.M. (992) 341)

Free sugar accumulation
Diffusion barrier; Submembrane structure (Widdas, W.F. (979) 221)

Free volume
Aqueous two-phase system; Partitioning; Poly(ethylene glycol) (Eiteman, M.A. (992) 125)

Freeze-etch
Liposomal amphotericin B; Amphotericin B; Phase transition; Electron microscopy; ESR (Grant, C.W.M. (984) 11)

Glycosphingolipid; Ganglioside; Spin label; Liposome; ESR (Mehlhorn, I.E. (986) 281)

Freeze-etching
Phase transition; Glycosphingolipid; Cholesterol; Phospholipid bilayer; Electron microscopy (Rock, P. (979) 347)

Freeze-fracture
Membrane; Lymphocyte; Immunocytochemistry; (Human lymphocyte) (Pavan, A. (978) 158)

Bacteriorhodopsin; Lateral phase separation; NMR, ^{31}P-; Protein aggregation; Dimyristoylphosphatidylcholine; Electron microscopy; (*H.halobium*) (Sternberg, B. (980) 117)

Poly(ethylene glycol); Membrane fusion; Glycocalyx structure; Volume exclusion; ESR; (Human erythrocyte membrane) (Pratsch, L. (980) 146)

Detergent; Phospholipid vesicle; Critical micellar concentration; DSC; Fourier transform infrared spectroscopy (Bayerl, T.M. (984) 214)

Chromaffin granule; Adhesion; Lysis; Hyperosmotic relaxation lysis; Intragranular vesicle (Engel, J. (985) 111)

Freeze-thaw damage, mechanical
Cryoprotection; Trehalose; Membrane permeability; Osmotic stress; (Spinach thylakoid) (Hincha, D.K. (987) 231)

Freeze-thawing
Fluorescence polarization; Parinaric acid; Lipid state; Lipid bilayer vesicle; Membrane fragment; (*E. coli*) (Souzu, H. (978) 105)

Fluorescence polarization; Parinaric acid; Lipid state; Dehydration; (*E. coli*) (Souzu, H. (978) 112)

Freeze trapping
NMR, ^{31}P-; Yeast; (*S. cerevisiae*) (Tanaka, A. (993) 280)

Freezing
Phosphatidylcholine; Dehydration; Lyotropic phase behavior (Lynch, D.V. (984) 267)

Frequency domain fluorometry
Cholesterol; 1,6-Diphenyl-1,3,5-hexatriene; Lifetime distribution; Microheterogeneity (Fiorini, R. (1006) 198)

Friend erythroleukemic cell
Aminophospholipid; ATP-dependent translocase; Phospholipid asymmetry; Transbilayer mobility; (Murine erythrocyte) (Middelkoop, E. (978) 241)

Fructose-1,6-bisphosphatase
Woodward's reagent K; Diethyl pyrocarbonate; Thioredoxin; Organic solvent; Chaotropic anion (Prat-Gay, G. (973) 457)

Fructose 2,6-bisphosphate
Pyrophosphate; Sucrose synthesis; Fluoride; Photosynthesis; (Spinach) (Quick, P. (973) 263)

6-Phosphofructokinase; Alveolar type II cell; Development; (Rat lung) (Heesbeen, E.C. (1002) 388)

pH sensitivity; Thrombin; Alkalinization; Human platelet (Vasta, V. (1011) 165)

Fructose-biphosphate aldolase
Gene expression; RNA polymerase III; α-Amanitin; (Rat) (Arai, Y. (1007) 91)

Fructose metabolism
NMR, ^{31}P-; Energy metabolism regulation (Karczmar, G.S. (1012) 121)

Fruiting inducing activity
Cerebroside; Structure–activity relationship; (*L. edodes*) (Kawai, G. (1001) 185)

FT-IR
Amide proton exchange; Rhodopsin structure; Bacteriorhodopsin structure; Conformational change (Haris, P.I. (995) 160)

Polypeptide conformation; Poly(L-lysine); Molar absorptivity (Jackson, M. (998) 75)

Nucleotide structure; Conformational change; NMR, ^{1}H-; X-ray diffraction (Tajmir-Riahi, H.-A. (1009) 168)

Fucoxanthin-chlorophyll *a*/*c* protein
Chlorophyll *c*; Supramolecular assembly; Decyl sucrose; Light-harvesting pigment; Energy transfer; (Brown alga); (*D. dichotoma*) (Katoh, T. (976) 233)

Functional domain
Cellulase; Cellobiohydrolase; Monoclonal antibody; Proteolysis; (*T. reesei*) (Mischak, H. (990) 1)

Fura-2
Calcium ion, intramitochondrial; Calcium transport, mitochondrial; (Heart mitochondria) (McCormack, J.G. (973) 420)

Calcium ion, intracellular; cyclic AMP; Secretagogue; Calcium ion buffer; (Rabbit gastric mucosa) (Michelangeli, F. (983) 82)

Calcium ion release; Arachidonic acid; Inositol trisphosphate; Platelet membrane; (Human) (Tohmatsu, T. (1012) 97)

ATP; Calcium ion, cytoplasmic; Phorbol myristate acetate; (Human neutrophil) (Kuroki, M. (1012) 103)

Furocoumarin
Psoralen; Angelicin; Glutathione; Photooxidation; Melanin pigmentation; Ultraviolet irradiation; Oxygen radical (D'Ischia, M. (993) 143)

Fusion
Photoactive hydrophobic labeling; α-Lactalbumin; Phospholipid bilayer (Kim, J. (983) 1)

Polyphosphoinositide; Lysophosphatidylinositol monophosphate; Phosphatidylinositol; Membrane (Wheeler, J.J. (984) 33)

Fusogen
Amphipathic alpha-helical peptide; Membrane fusion; Liposome; Cationic peptide; Polymyxin B; Hydrophobic moment (Suenaga, M. (981) 143)

G

Gadolinium chloride
Macrophage blockade; Liposome; Kupffer cell; Phagocytosis; (Rat hepatocyte) (Lázár, G. (1011) 97)

Galactogen
β-(1 → 6)-D-Galactosyltransferase; (*H. pomatia*) (Goudsmit, E.M. (992) 289)

Galactose specific receptor
Autoantigen; Electron microscopy; Receptor mediated endocytosis; (Rat Kuppfer cell); (Rat hepatocyte) (Schlepper-Schäfer, J. (1013) 266)

β-Galactoside binding
Lectin purification; Affinity chromatography; (Thigh muscle); (*R. tigerina*) (Shet, M.S. (991) 465)

cDNA sequence; Lectin; IgE binding protein; Superfamily; (Human) (Hirabayashi, J. (1008) 85)

β-Galactoside binding lectin
Hepatic lectin; Lectin; Characterization (Ali, N. (992) 30)

Galactoside dependence
Cotransport; Proton transport; Lactose carrier; *lac*Y; Transport energetics (King, S.C. (982) 253)

Galactosyllactose
Oligosaccharide, neutral; Carbohydrate structure; NMR, ^{13}C-; (Ovine colostrum) (Urashima, T. (992) 375)

Galactosyltransferase
Cortisone; Phorbol ester; Development; (Rat small intestine) (Ozaki, C.K. (991) 243)

β-(1 → 6)-D-Galactosyltransferase
Galactogen; (*H. pomatia*) (Goudsmit, E.M. (992) 289)

Gallstone
Cholesterol gallstone; HMG-CoA reductase; Lithogenic index; Enzyme inhibition; Hyperlipidemia; (Hamster) (Koide, K. (1005) 65)

Gallstone disease
Phospholipase; Bile; Cholesterol nucleation; (Human) (Groen, A.K. (1006) 179)

Gamma-ray perturbed angular correlation spectroscopy
Liposome; Intracellular stability; Cholesterol; PACS; (Kupffer cell) (Roerdink, F.H. (980) 234)

Ganglioside
Lipid vesicle; Lipid asymmetry; Phosphatidylethanolamine; Curvature (Thomas, P.D. (978) 85)

Reticuloendothelial system; Mononuclear phagocyte system; Liposome; Drug delivery; Sphingomyelin; (Mouse) (Allen, T.M. (981) 27)

Undernutrition; Myelin; ATPase, Na^+/K^+-; 5′-Nucleotidase; Phospholipid fatty acid; (Rat) (Shantharam, P. (982) 115)

Phospholipid; Monolayer; Water/lipid interface; Lipid/air interface; Surface potential; Electric dipole moment (Beitinger, H. (984) 293)

Planar bilayer; Calcium; Serotonin (Matinyan, N.S. (984) 313)

Glycosphingolipid; Spin label; Liposome; Freeze-etch; ESR (Mehlhorn, I.E. (986) 281)

Glycosphingolipid; Cartilage; Lipid characterization; (Pig cortical bone); (Pig cartilage) (Fukaya, N. (1004) 108)

Sialyllactotetraosylceramide; Protein bound sialic acid; Dendritic arborization; Synaptogenesis; (Human) (Svennerholm, L. (1005) 109)

Ganodermic acid S
Platelet membrane; Aggregation; Phosphoinositide metabolism; Electron microscopy; (Human blood) (Wang, C.-N. (986) 151)

Gap junction
Lens plasma membrane; cyclic AMP; Protein phosphorylation; (Sheep lens) (Voorter, C.E.M. (986) 8)

Gas-sensing electrode
Carbonic anhydrase; Urease; Synergism; Urea production (Botré, C. (997) 111)

Gastric lipase
Gastric lipolysis; Lipid digestion; Triacylglycerol hydrolysis; (Human); (Bovine) (Bernbäck, S. (1001) 286)

Enzyme inhibition; Ajoene; (Human) (Gargouri, Y. (1006) 137)

Lipase; Human gastric lipase (Gargouri, Y. (1006) 255)

Gastric lipolysis
Gastric lipase; Lipid digestion; Triacylglycerol hydrolysis; (Human); (Bovine) (Bernbäck, S. (1001) 286)

Gastric mucin
Sulfation; Secretion; (Rat) (Van Beurden-Lamers, W.M.O. (990) 232)

Gastric mucosa
ATPase, H^+/K^+-; Ontogeny; Parietal cell; ATPase antibody; (Rat) (Hervatin, F. (985) 320)

Gastric mucosal regeneration
Aging; Tyrosine kinase; Proto-oncogene (Majumdar, A.P.N. (992) 35)

Gastrin
Endopeptidase 24.11; Sulfation; Cholecystokinin; Metabolism (Pauwels, S. (996) 82)

Inositol phosphate; CCK-8; Cholecystokinin; (Gastric parietal cell) (Roche, S. (1014) 313)

Gastrin receptor
Cholecystokinin receptor; (Rabbit parietal cell); (Rabbit gastric mucosal cell) (Magous, R. (1010) 357)

Gastrulation
Sea urchin; Exogastrula; Exogastrula inducing peptide; Primary structure; (*A. crassispina*) (Suyemitsu, T. (999) 24)

Gaucher disease
β-Glucosidase; Lysosome; Subunit coupling; Irradiation; Radiation inactivation; Triton X-100 (Maret, A. (996) 254)

GC-MS
Bile acid intermediate; Bile acid metabolism; HPLC; (Rat liver peroxisome) (Östlund Farrants, A.-K. (1002) 198)

Fatty acid metabolism; Chiral phase HPLC; Lipoxygenase; Prostasome; (Male fertility); (Human) (Oliw, E.H. (1002) 283)

Thromboxane metabolism; (Rat kidney) (Chiabrando, C. (1006) 167)

GDP-fucose: asialo $G_{M1}\alpha(1-2)$fucosyltransferase
Neutral glycolipid; Small intestinal mucosa; (Mouse) (Umesaki, Y. (1001) 163)

Gel electrophoretic filtration
Bacteriochlorophyll; Photosynthesis; Fluorescence; Chlorosome isolation; (*C. aurantiacus*) (Griebenow, K. (973) 235)

Gelsolin
Actin; Vitamin D binding protein (Gc); Blood; (Human) (Ohsawa, M. (992) 195)

Gel-to-liquid crystal transformation
Dipalmitoylphosphatidylcholine; Phospholipid; Squeeze-out; Surface activity; Fluorescence polarization (Egberts, J. (1002) 109)

Gene
Microsome; Epoxide hydrolase; DNA sequence; (Human) (Wilson, N.M. (1008) 357)

Gene A protein
Finger structure; DNA sequence; (*Microviridae*) (Kodaira, K.-I. (1008) 123)

Gene characterization
Histone gene family; Gene cloning; Genomic organization; (*Tilapia* fish) (Englander, E. (1007) 277)

Gene cloning
Histone gene family; Genomic organization; Gene characterization; (*Tilapia* fish) (Englander, E. (1007) 277)

Gene deletion
Ubiquinol : cytochrome *c* oxidoreductase; Steady state kinetics; Core II protein, 40 kDa; Subunit VI, 17 kDa; (HR2 wild type yeast) (Schoppink, P.J. (974) 192)

Gene dosage effect
Recombinant DNA; Growth hormone cDNA; cDNA expression; (*E. coli* vector); (Human gene) (Yamakawa, M. (1009) 156)

Gene expression
Glucoamylase; Vacuole; (*S. cerevisiae*) (Pugh, T.A. (994) 200)

Interleukin-1α; Synthetic gene; (Mouse); (*E. coli*) (Daumy, G.O. (998) 32)

Pneumolysin; Protein purification; recombinant DNA; (*S. pneumoniae*) (Mitchell, T.J. (1007) 67)

recombinant DNA; DNA; Shuttle plasmid; Luminescence; Luciferase gene; (*V. harveyi* gene); (*B. subtilis*); (*E. coli*) (Karp, M. (1007) 84)

Fructose-biphosphate aldolase; RNA polymerase III; α-Amanitin; (Rat) (Arai, Y. (1007) 91)

cyclic AMP; Mastocytoma; c-*fos*; c-*myc*; Differentiation; (Mouse cell) (Goulding, M.D. (1007) 99)

Germinal gene; Histone H4 gene; Gene structure; Histone mRNA; mRNA (Wolfe, S.A. (1007) 140)

pnd$^+$ gene; Nucleotide sequence; Magnesium efflux; RNA degradation; (*E. coli*) (Sakikawa, T. (1007) 158)

DNA methylation; Restriction endonuclease; DNAase I hypersensitivity; Southern blotting; Adenovirus type 12-transformed cell (Bartnik, E. (1007) 228)

Interleukin; Lymphokine; Glycosylation; Amino terminal protein sequence; (Monkey kidney cells); (Murine interleukin gene) (Ramanathan, L. (1007) 283)

Stress induced gene expression; Heat shock protein mRNA; Metallothionein mRNA; Heavy metal; mRNA; (Fish cell lines) (Misra, S. (1007) 325)

5-Azacytidine; Thymidine kinase promoter; Hemimethylated *Eco*RI site; DNA methylation; (HSV *tk* gene); (Thymidine kinase deficient human cell) (Tasseron-de Jong, J. (1008) 62)

Starch hydrolysis; Glucoamylase; Glycoprotein; Protein secretion; (Budding yeast) (Vanoni, M. (1008) 168)

Calcitonin; CGRP-I; Alternative splicing; mRNA; (Human) (Bovenberg, R.A.L. (1008) 223)

Growth hormone; Pregrowth hormone; cDNA cloning; Nucleotide sequence; (Ovine pituitary) (Warwick, J.M. (1008) 247)

Triiodothyronine; Pituitary; Response element; Thyrotrophin; Prolactin (Ahlquist, J.A.O. (1008) 251)

Glutathione peroxidase; Species difference; Selenium deficiency (Toyoda, H. (1008) 301)

α-Fetoprotein; Albumin; Thyroid hormone; Triiodothyronine; (Human hepatoma cell) (Conti, R. (1008) 315)

Mitogen regulated protein; Proliferin; Growth hormone; Mouse prolactin; Promoter sequence (Connor, A.M. (1009) 75)

Colorectal cancer; Ribosomal protein; Tumor marker; Nucleotide sequence; Growth regulation; (Human) (Chester, K.A. (1009) 297)

ras gene product; cyclic AMP metabolism; β-Adrenergic receptor; Cell proliferation; (Mouse cell) (Davies, S.-A. (1013) 173)

Gene inactivation
DNA transfection; 5-Azacytidine; DNA methylation, de novo; HSV *tk* gene; (Human cell line) (Tasseron-de Jong, J.G. (1007) 215)

Gene organization
Calcium binding protein; Parvalbumin; Oncomodulin; Gene regulation; Tissue-specific gene expression (Berchtold, M.W. (1009) 201)

General amino-acid permease
Ethanol; Amino acid transport; Cycloheximide; (*S. cerevisiae*) (Ferreras, J.M. (979) 375)

Gene regulation
Histone; Transcription; Myoblast; Differentiation; (Rat) (Larson, D.E. (1009) 177)

Calcium binding protein; Parvalbumin; Oncomodulin; Gene organization; Tissue-specific gene expression (Berchtold, M.W. (1009) 201)

Gene structure
Chorionic gonadotropin synthesis; mRNA, steady state level; Tumor cell line; (Human) (Cosgrove, D.E. (1007) 44)

Germinal gene; Histone H4 gene; Gene expression; Histone mRNA; mRNA (Wolfe, S.A. (1007) 140)

Genetic evolution
snRNA; DNA sequence; U3 gene; U3 pseudogene; (Human) (Yuan, Y. (1008) 14)

Genetic polymorphism
Apolipoprotein B gene; Restriction fragment length polymorphism; (Human fibroblast) (Series, J. (1003) 183)

Genomic DNA
Heat shock protein; Operon; *dnaK-dnaJ* deletion mutant; DNA; (*E. coli*) (Ohki, R. (1009) 94)

Genomic organization
Histone gene family; Gene cloning; Gene characterization; (*Tilapia* fish) (Englander, E. (1007) 277)

Genomic sequence
α2u Globulin; Urinary protein; LINE 1 interruption; Movable genetic element; Terminal redundancy (Yamamoto, M. (1008) 322)

Gentamicin treatment
Myelin body; Lysosomal fraction; (Rat kidney cortex) (Nässberger, L. (984) 365)

Germinal gene
Histone H4 gene; Gene structure; Gene expression; Histone mRNA; mRNA (Wolfe, S.A. (1007) 140)

Gestation
Fatty acid binding protein; Glucose-6-phosphate dehydrogenase; Ontogeny; (Human fetal liver) (Das, T. (1002) 164)

Ghost fiber
Caldesmon; Actin–myosin interaction; Polarized fluorescence (Nowak, E. (999) 289)

Ginsenoside
Panaxynol; Platelet inhibition; Thromboxane formation; (*P. ginseng*) (Teng, C.-M. (990) 315)

Glial cell
Glycine transport; Chloride ion; Plasma membrane vesicle (Zafra, F. (979) 147)

Glibenclamide
Cardiac muscle; Tolbutamide; Diazoxide; Action potential; Potassium ion channel; ATP sensitive potassium ion channel; (Rat) (Faivre, J.-F. (984) 1)

Glioma
Neuroblastoma; Neuroblastoma×glioma hybrid; Polyphosphoinositide; Inositol cycle; Cell culture (Glanville, N.T. (1004) 169)

Glioma cell
Calcium ion activated potassium ion channel; Potassium ion channel; Anesthetic; Volatile anesthetic; Charybdotoxin; Calcium ionophore (Tas, P.W.L. (983) 264)

Globin
Amino acid sequence; (Sea cucumber); (*P. chilensis*) (Suzuki, T. (998) 292)

Amino acid sequence; Hemoglobin, dimeric; Phylogenetic relationship; (*C. soyoae*) (Suzuki, T. (999) 254)

β-Globin gene
5′-Splice site sequence; Site-directed mutagenesis; Quantification analysis; (Rabbit) (Iida, Y. (1007) 270)

Globin synthesis
Adriamycin; Erythroid differentiation; Heme synthesis; (Human erythroleukemic cell) (Trentesaux, C. (1012) 161)

α2u Globulin
Urinary protein; LINE 1 interruption; Genomic sequence; Movable genetic element; Terminal redundancy (Yamamoto, M. (1008) 322)

Glomerular basement membrane
Cysteine proteinase; Membrane degradation; (Human); (Kidney cortex) (Thomas, G.J. (990) 246)

Glomerular epithelial cell
Glomerular mesangial cell; Collagen; Glomerular sclerosis; Proline; Hydroxyproline; (Human glomerulus) (Ardaillou, N. (991) 445)

Glomerular mesangial cell
Glomerular epithelial cell; Collagen; Glomerular sclerosis; Proline; Hydroxyproline; (Human glomerulus) (Ardaillou, N. (991) 445)

Glomerular sclerosis
Glomerular epithelial cell; Glomerular mesangial cell; Collagen; Proline; Hydroxyproline; (Human glomerulus) (Ardaillou, N. (991) 445)

Glucagon
Lipoprotein; Apoprotein; Plasma cholesterol; Cholesterol; (Rat) (Guettet, C. (1005) 233)

Protein phosphatase; Inhibitor protein; Amino acid sequence; Immunoblotting; Hepatic metabolism; (Rabbit); (Rat) (MacDougall, L.K. (1010) 218)

Glucoamylase
Sugar chain, N-linked; Endo-β-*N*-acetylglucosaminidase; (*R. niveus*) (Takegawa, K. (990) 98)

Vacuole; Gene expression; (*S. cerevisiae*) (Pugh, T.A. (994) 200)

Gene expression; Starch hydrolysis; Glycoprotein; Protein secretion; (Budding yeast) (Vanoni, M. (1008) 168)

Glucoceramide
Sphingomyelin; Ceramide; Hep G_2 cell; Peritoneal macrophage; J774 macrophage; (Rat liver) (Stein, O. (1003) 175)

Glucocerebrosidase
Epidermis; Glucocerebroside; Glucosidase; Glucosylceramide; Glycolipid; (Pig) (Wertz, P.W. (1001) 115)

Glucocerebroside
Epidermis; Glucocerebrosidase; Glucosidase; Glucosylceramide; Glycolipid; (Pig) (Wertz, P.W. (1001) 115)

Glucocorticoid
Proto-oncogene expression; c-*erbA*; Cell proliferation; (Human lymphoid cell) (Maroder, M. (1009) 188)

Glucocorticoid receptor
Formaldehyde; Chemical crosslinking; (HeLa cells) (Rossini, G.P. (1011) 183)

Gluconeogenesis
Glucose assay; Aminopyrine; 4-Aminoantipyrine; (Hepatocyte); (Microsome) (Latos, P. (991) 152)

Glucose
6-Deoxy-D-glucose; Transport; Specificity; (*T. brucei*) (Eisenthal, R. (985) 81)

Collagen; Crosslinking; Collagen degradation; Glycation; Fluorescence (Fujimori, E. (998) 105)

Sodium; Pancreatic islet; Depolarization; Tolbutamide; (Rat) (Ali, L. (1010) 283)

Ketone body; Glutamine; Mitogen stimulation; (Rat splenic lymphocyte) (O'Rourke, A.M. (1010) 342)

Fatty acid; Glycogen metabolism; Contraction; (Porcine vascular smooth muscle) (Barron, J.T. (1012) 69)

D-Glucose
Brush-border membrane; Fish oil; Butter fat; Lipid fluidity; Fatty acid; (Rat small intestine) (Brasitus, T.A. (979) 177)

Glucose absorption
Bradykinin; Glucose metabolism; Commercial diet; (Rat small intestine) (Kellett, G.L. (992) 128)

Glucose assay
Aminopyrine; 4-Aminoantipyrine; Gluconeogenesis; (Hepatocyte); (Microsome) (Latos, P. (991) 152)

Glucose carrier sulfhydryl
Glucose transport; *N*-Ethylmaleimide; Differential labeling; (Human erythrocyte) (May, J.M. (986) 207)

Glucose incorporation
Histone; Insulin-like effect; Adipocyte; Glucose phosphorylation; (Rat) (McCroskey, M.C. (1011) 212)

Glucose metabolism
Bradykinin; Glucose absorption; Commercial diet; (Rat small intestine) (Kellett, G.L. (992) 128)

Glucose oxidase
Thermostability; Enzyme subunit; (*A. niger*) (Ye, W.-N. (999) 86)

Glucose oxidation
Diabetes; Heart; Fatty acid; Carnitine acyltransferase; Cardiac function (Wall, S.R. (1006) 97)

Brown adipose tissue; Glucose uptake; Alanine uptake; Alanine oxidation; (Rat) (López-Soriano, F.J. (1010) 338)

Glucose-6-phosphatase
Microsome; Glucose 6-phosphate transport; Amiloride (Pears, J. (993) 224)

Glucose 6-phosphate
Glucose transporter; Dipeptide Cbz-Gly-Phe-NH_2; Metallo-endoproteinase substrate; Phenylarsine oxide; Membrane reconstitution; (Rat adipocyte); (Human erythrocyte) (Wheeler, T.J. (979) 331)

Glucose-6-phosphate dehydrogenase
Enzyme kinetics; Substrate analog (Birke, S. (999) 243)

Fatty acid binding protein; Ontogeny; Gestation; (Human fetal liver) (Das, T. (1002) 164)

Transcriptional control; Insulin; cDNA; (Rat liver) (Katsurada, A. (1006) 104)

Glucose-6-phosphate isomerase
Erythrocyte aging; Enzyme decay (Fazi, A. (998) 286)

Glucose-6-phosphate phosphohydrolase
Microsome; Phospholipid vesicle; (Guinea pig liver) (Gumbhir, K. (981) 77)

Glucose 6-phosphate transport
Glucose-6-phosphatase; Microsome; Amiloride (Pears, J. (993) 224)

Glucose phosphorylation
Histone; Insulin-like effect; Adipocyte; Glucose incorporation; (Rat) (McCroskey, M.C. (1011) 212)

Glucose-regulated gene (grp78)
hsp70 gene family; Liver regeneration; Acute phase response; (Rat liver) (Krawczyk, Z. (1009) 237)

Glucose transport
Vanadate; (Rat small intestine) (Kellett, G.L. (979) 311)

Glucose transporter mRNA; Serum; Growth factor; Phorbol ester; (Mouse fibroblasts 3T3) (Kitagawa, T. (980) 100)

N-Ethylmaleimide; Differential labeling; Glucose carrier sulfhydryl; (Human erythrocyte) (May, J.M. (986) 207)

Phenylarsine oxide; Monensin; Insulin processing; Signal transduction; (Rat adipocyte) (Douen, A.G. (1010) 363)

Glucose transporter
Anion transport protein; Band 3 protein; Band 4.5; *p*-Azidobenzylphlorizin; ESR (Wyse, J.W. (979) 127)

Glucose 6-phosphate; Dipeptide Cbz-Gly-Phe-NH_2; Metallo-endoproteinase substrate; Phenylarsine oxide; Membrane reconstitution; (Rat adipocyte); (Human erythrocyte) (Wheeler, T.J. (979) 331)

Glucose transporter mRNA
Glucose transport; Serum; Growth factor; Phorbol ester; (Mouse fibroblasts 3T3) (Kitagawa, T. (980) 100)

Glucose uptake
Hypoxia; Iron absorption; Valinomycin; Nigericin; (Mouse duodenum) (Raja, K.B. (984) 262)

Brown adipose tissue; Alanine uptake; Glucose oxidation; Alanine oxidation; (Rat) (López-Soriano, F.J. (1010) 338)

Glucosidase
Epidermis; Glucocerebroside; Glucocerebrosidase; Glucosylceramide; Glycolipid; (Pig) (Wertz, P.W. (1001) 115)

β-Glucosidase
Monoclonal antibody; (*T. reesei*) (Hofer, F. (992) 298)

Gaucher disease; Lysosome; Subunit coupling; Irradiation; Radiation inactivation; Triton X-100 (Maret, A. (996) 254)

Phenylimidazole (Li, Y.-K. (999) 227)

Glucosidase inhibitor
Exoglucanase; (Yeast) (Ridruejo, J.C. (993) 179)

Glucosylceramide
Epidermis; Glucocerebroside; Glucocerebrosidase; Glucosidase; Glycolipid; (Pig) (Wertz, P.W. (1001) 115)

Glucosyltransferase
Dolichyl phosphoglucose; Regulation; Microsomal membrane; (Human liver microsome) (Matern, H. (1004) 67)

Glucuronidation
Retinyl ester; UDP glucuronosyltransferase; Vitamin A; TCDD (Bank, P.A. (993) 1)

Glutamate binding, [^{3}H]-
Synaptic membrane; Neurotransmitter receptor (Yoneda, Y. (1012) 74)

Glutamate dehydrogenase
NAD^+-glutamate dehydrogenase; Kinetic mechanism; (*H. halobium*) (Bonete, M.J. (990) 150)

Lysine residue; Diethyl pyrocarbonate; Chemical modification; (*C. pyrenoidosa*) (Shatilov, V.R. (994) 222)

Electron microscopy; (*C. pyrenoidosa*) (Shatilov, V.R. (995) 17)

Leucine; Enzyme activation (Couée, I. (995) 97)

Glutamate synthase
Ferredoxin; Protein–protein interaction (Hirasawa, M. (977) 150)

Glutamine
Basolateral membrane; Amino acid transport; (Rat intestine) (Ghishan, F.K. (979) 77)

Glucose; Ketone body; Mitogen stimulation; (Rat splenic lymphocyte) (O'Rourke, A.M. (1010) 342)

Glutamine degradation
Glutamine synthesis; Vasopressin; (Rat liver cell) (Vincent, N. (1014) 184)

Glutamine synthesis
Glutamine degradation; Vasopressin; (Rat liver cell) (Vincent, N. (1014) 184)

Glutamine synthetase
Divalent cation; Manganese; Nitrate uptake; Enzyme regulation; (*A. chroococcum*) (Ruiz, M.T. (993) 36)

Affinity chromatography; Nitrogen fixation; (*R. rubrum*) (Soliman, A. (994) 138)

Glutamine transport
Brush-border membrane; (Rat jejunum) (Van Voorhis, K. (978) 51)

γ-Glutamylcysteine synthetase
Iron; Glutathione; Cysteine; Oxidative injury; (Mouse) (Ogino, T. (1006) 131)

γ-Glutamyltransferase
Oligomeric enzyme; Reversed micelle; Surfactant; Organic solvent (Kabanov, A.V. (996) 147)

***N*-Glutarylphosphatidylethanolamine**
p-Aminophenyl α-D-mannopyranoside; Phospholipid derivative; Covalent coupling; (Multilamellar liposome) (Weissig, V. (1003) 54)

Glutathione
1,2-Dibromoethane; HPLC; Uncoupler; (Rat liver mitochondria) (Botti, B. (992) 327)

Furocoumarin; Psoralen; Angelicin; Photooxidation; Melanin pigmentation; Ultraviolet irradiation; Oxygen radical (D'Ischia, M. (993) 143)

Prostanoid; Prostaglandin; Thromboxane; Decidua; (Human) (Asbóth, G. (1002) 101)

Iron overload; Ethane; Lipid peroxidation; L-Buthionine (*S,R*)-sulfoximine; (Mouse) (Kawabata, T. (1004) 89)

Posterior subcapsular cataract; Retinitis pigmentosa; Lipid peroxidation; Lens fiber; Membrane damage; Cataractogenesis; (Human) (Babizhayev, M.A. (1004) 124)

Lipid peroxidation; L-Carnosine; Histidine; Dipeptide; (Posterior subcapsular cataract) (Babizhayev, M.A. (1004) 363)

Iron; γ-Glutamylcysteine synthetase; Cysteine; Oxidative injury; (Mouse) (Ogino, T. (1006) 131)

Glutathione peroxidase; Phospholipid hydroperoxide glutathione peroxidase; Selenium; (Rat) (Zhang, L. (1006) 140)

Glutathione inhibitor
Glutathione transporter; Membrane potential; Brush-border membrane; (Rabbit small intestine) (Vincenzini, M.T. (987) 29)

Glutathione peroxidase
Glutathione *S*-transferase; Glyoxalase; (Bovine) (Hayes, J.D. (994) 21)

Phospholipid hydroperoxide glutathione peroxidase; Glutathione; Selenium; (Rat) (Zhang, L. (1006) 140)

Prostacyclin; Selenium; PAF; Cyclooxygenase; (Human endothelial cells) (Hampel, G. (1006) 151)

Gene expression; Species difference; Selenium deficiency (Toyoda, H. (1008) 301)

Glutathione reductase
Electron transfer; Quinone/NADPH oxidation; Flavoprotein redox reaction (Čénas, N.K. (973) 399)

Glutathione reductase activity
Reverse micellar enzymology; Surfactant; Nonpolar solvent (Kumar, A. (996) 1)

Glutathione *S*-transferase
Photoaffinity labeling; *S*-(4-Azidophenacyl)glutathione; Membrane vesicle; Transport; (Rat liver) (Kunst, M. (982) 15)

Isozyme; (Kidney); (Human) (Hiley, C. (990) 321)

Site directed inactivation; 1-Chloro-2,4-dinitrobenzene; (Human) (Corrigall, A.V. (991) 399)

Development; (Human liver) (Strange, R.C. (993) 186)

Glutathione peroxidase; Glyoxalase; (Bovine) (Hayes, J.D. (994) 21)

Nucleus; Lipid peroxidation (Tirmenstein, M.A. (995) 174)

Immunohistochemistry; (Human liver) (Abei, M. (995) 279)

Computer modeling; Rapid equilibrium; Random sequential bi-bi mechanism (Ivanetich, K.M. (998) 7)

Glutathione transferase
Protein phosphorescence; Placenta; (Human) (Arduini, A. (999) 203)

Glutathione transporter
Glutathione inhibitor; Membrane potential; Brush-border membrane; (Rabbit small intestine) (Vincenzini, M.T. (987) 29)

Glycation
Collagen; Crosslinking; Collagen degradation; Glucose; Fluorescence (Fujimori, E. (998) 105)

Glyceraldehyde-3-phosphate dehydrogenase
Hydrophobic chromatography; Colchicine; Immobilized colchicine (Kocha, T. (991) 56)

Microtubule binding protein; (Human tumor cell line) (Launay, J.F. (996) 103)

Deuterated spin label; NAD^+ binding; NAD^+ spin label; Spin–spin interaction; Dehydrogenase mechanism (Wilder, R.T. (997) 65)

Arginine residue; Chemical modification (Asryants, R.A. (997) 159)

Stereospecificity; NMR; (Spinach chloroplast) (Levy, L.M. (997) 331)

Glycerate 2,3-bisphosphate
5′-Nucleotidase; (Rat tissue, Human tissue) (Bontemps, F. (997) 131)

Glyceroglycolipid
Local anesthetic; Tetracaine; NMR, ^2H- (Auger, M. (981) 351)

Cholesterol; Liposome membrane; ESR (Naito, M. (985) 147)

Glycerol
ATP; ADP; Adenine nucleotide content; Osmoregulation; (Alga); (*Dunaliella*) (Marengo, T. (976) 102)

Glycerol dehydrogenase
Metalloprotein; Stereospecificity; Fluorescence (Spencer, P. (994) 270)

Glycerolipid metabolism
Dietary fatty acid; Fatty acid; Icosanoid; PAF; (Rat kidney) (Yeo, Y.K. (1006) 9)

Glycerol kinase
Yeast; Salt tolerance; Osmoregulation; (*D. hansenii*) (Nilsson, A. (991) 296)

Glycerol monooleate
Model membrane; Membrane potential; Cable equation; Black lipid membrane; Gramicidin (Fromherz, P. (987) 222)

Glycerol 3-phosphate
Lactate; Triacylglycerol turnover; Glycogen; (Rat heart) (De Groot, M.J.M. (1006) 111)

Glycerol 3-phosphate acylation
Type II cell; Lung surfactant; Acyl-CoA species; (Rat lung) (Den Breejen, J.N. (1002) 277)

Glycerol-3-phosphate dehydrogenase
In vitro translation; Mitochondrial processing; Thyroid hormone; Protein transport (Clay, V.J. (975) 112)

Alga; Chloroplast; Redox balance; Starch degradation (Klöck, G. (991) 347)

Glycerone phosphate acyltransferase
Acyldihydroxyacetone phosphate; Alkyldihydroxyacetone-phosphate synthase; Transmembrane localization; (Rat liver peroxisomes) (Hardeman, D. (1006) 1)

Glycerophosphate acylation
Acyl species; Phosphatidic acid; CDP-diacylglycerol; Phosphatidylglycerol; (Rat liver mitochondria) (Rüstow, B. (1002) 261)

Glycerophosphocholine synthesis
Lysophosphatidylcholine; Phosphatidylcholine metabolism; 1- and 2-Acyllysophosphatidylcholine (Morash, S.C. (1004) 221)

Glycerophospholipid
Neutrophil; Phospholipid; Arachidonic acid; $(n-3)$Fatty acid; Transacylation; (Human neutrophil) (MacDonald, J.I.S. (1004) 151)

Glycerophosphorylcholine
Phosphatidylcholine; Phospholipid synthesis; Pulmonary surfactant; (Rat liver); (Rat lung) (Veldhuizen, R.A.W. (1005) 157)

Glycine transport
Glial cell; Chloride ion; Plasma membrane vesicle (Zafra, F. (979) 147)

Glycine transporter
Sodium ion dependence; Chloride dependence; Glycoprotein; Proteoliposome; (Rat) (Lopez-Corcuera, B. (983) 247)

Glycocalyx structure
Poly(ethylene glycol); Membrane fusion; Volume exclusion; ESR; Freeze-fracture; (Human erythrocyte membrane) (Pratsch, L. (980) 146)

Glycogen
Lactate; Triacylglycerol turnover; Glycerol 3-phosphate; (Rat heart) (De Groot, M.J.M. (1006) 111)

Glycogen metabolism
Fatty acid; Contraction; Glucose; (Porcine vascular smooth muscle) (Barron, J.T. (1012) 69)

Glycogen particle enzyme
Liver glycogen-synthase phosphatase; Nucleoside triphosphate regulation; Glycogen synthase activation (Gilboe, D.P. (991) 340)

Glycogen synthase
Glycogen synthase kinase 3; Protein phosphorylation; Polycation; Inhibitor; (Rabbit skeletal muscle) (Hegazy, M.G. (1011) 198)

AMP activated protein kinase; Protein kinase; Substrate specificity; Phosphorylase kinase; Phosphorylation site; Consensus sequence (Carling, D. (1012) 81)

Glycogen synthase activation
Liver glycogen-synthase phosphatase; Nucleoside triphosphate regulation; Glycogen particle enzyme (Gilboe, D.P. (991) 340)

Glycogen synthase kinase 3
Glycogen synthase; Protein phosphorylation; Polycation; Inhibitor; (Rabbit skeletal muscle) (Hegazy, M.G. (1011) 198)

Glycolipid
Epidermis; Glucocerebroside; Glucocerebrosidase; Glucosidase; Glucosylceramide; (Pig) (Wertz, P.W. (1001) 115)

NMR, ^{1}H-; Phenolic mycoside; (*M. tuberculosis*) (Daffé, M. (1002) 257)

Monoclonal antibody; Adenocarcinoma; Colon tumor; (Rat) (Thurin, J. (1002) 267)

Mycoside; Phenolic mycoside; (*M. leprae*) (Daffé, M. (1002) 333)

Dimycoloyltrehalose; (*R. rhodochrous*) (De Almeida, E.T. (1005) 45)

Glycolipid headgroup
Membrane carbohydrate; NMR, ^{2}H- (Carrier, D. (983) 100)

Glycolipid structure
Neutral glycolipid; Small intestine; (Mouse) (Umesaki, Y. (1001) 157)

Glycolipid transfer protein
Sulfhydryl group; Intramolecular disulfide bond; Disulfide bond; Oligomerization; Cupric ion; (Pig brain) (Abe, A. (985) 38)

Intramolecular disulfide bond; Disulfide bond; Sulfhydryl group (Abe, A. (985) 45)

Glycolysis
Hexokinase; Tumor cell mitochondria; Adenylate kinase; Oxidative phosphorylation; (HT29 cell) (Gauthier, T. (975) 231)

High energy phosphate; Muscle contraction; (Pig) (Barron, J.T. (976) 42)

Enzyme binding; Muscle fatigue; Phosphofructokinase; (Gastrocnemius muscle); (*R. pipiens*) (Guderley, H. (977) 87)

Glycolytic enzyme
Tubulin; Microtubule; Poly(ethylene glycol); Microtrabeculae; Cytomatrix (Walsh, J.L. (999) 64)

Glycolytic pathway
recombinant DNA; Isozyme gene; Expression plasmid; Class I; Aldolase; Aldolase gene; (Human gene); (*E. coli* host) (Sakakibara, M. (1007) 334)

Glycomacropeptide
Aspartic proteinase; Milk-clotting enzyme; Substrate specificity; κ-Casein (Drøhse, H.B. (995) 221)

Glycopeptide
Polylactosamine type glycopeptide; Glycopeptide biosynthesis; (Rat hepatoma ascites cell) (Saunier, B. (1011) 110)

Glycopeptide biosynthesis
Polylactosamine type glycopeptide; Glycopeptide; (Rat hepatoma ascites cell) (Saunier, B. (1011) 110)

Glycophorin
CD4; Erythrocyte; Membrane–protein interaction; Flow cytometry; Immunoelectron microscopy (Arvinte, T. (981) 51)

CD4; Erythrocyte; Membrane–protein interaction; pH effect; Membrane defect (Arvinte, T. (981) 61)

Cholesterol; Phosphatidylcholine vesicle; ESR (Tampé, R. (982) 41)

Liposome stability; Phosphatidylethanolamine; Wheat germ agglutinin (Pinnaduwage, P. (986) 106)

Proteoliposome; Wheat germ agglutinin; Adsorption; Liposome integrity (Hutchinson, F.J. (987) 212)

Glycophorin MK
Monkey erythrocyte membrane; Amino Acid Sequence; Blood group activities, MN (Murayama, J.-I. (999) 273)

Glycoprotein
Phospholipid; Envelope glycoprotein; Reconstituted hybrid vesicle; (Sendai virus); (Influenza virus) (Lapidot, M. (980) 281)

Polymorphism; Milk fat globule membrane; Mammary epithelia; (Human); (Cow); (Chimpanzee); (Horse) (Patton, S. (980) 333)

Glycine transporter; Sodium ion dependence; Chloride dependence; Proteoliposome; (Rat) (Lopez-Corcuera, B. (983) 247)

GP IIb-IIIa; Platelet activation; cyclic AMP; Inositol phosphate; Protein phosphorylation; Fibrinogen (Sinigaglia, F. (984) 225)

Exoglucanase; Oligosaccharide; (Yeast) (Ramírez, M. (990) 206)

Mucin; Colon cancer; Ion exchange chromatography (Shimamoto, C. (991) 284)

α_2HS-glycoprotein; Disulfide bond; (Human plasma protein) (Araki, T. (994) 195)

Gene expression; Starch hydrolysis; Glucoamylase; Protein secretion; (Budding yeast) (Vanoni, M. (1008) 168)

Glycoprotein IIIa
Platelet membrane; Proteolytic product (Niewiarowski, S. (983) 91)

Glycosaminoglycan
Metastasis; Interaction; Internalization; Receptor; Cell culture (Redini, F. (991) 359)

Chondroitin sulfate; Cartilage; Ossification (Harab, R.C. (992) 237)

Diamine oxidase; Small bowel; (Rat) (D'Agostino, L. (993) 228)

Amyloid; Amyloidosis; Heparin; Dextran sulfate (Hamazaki, H. (998) 231)

Hyaluronidase; Hyaluronate; (Human skin fibroblast) (Larnier, C. (1014) 145)

Glycosaminoglycan biosynthesis
Cartilage; Epiphyseal plate; Mechanical force; Protein biosynthesis (Gray, M.L. (991) 415)

Glycosidic bond hydrolysis
α-Amylase; NMR; Covalent enzyme intermediate; Enzyme mechanism; Cryological enzymology; (Porcine pancreas) (Tao, B.Y. (995) 214)

Glycosome
Microbody; Peroxisome; Glyoxysome; Protein translocation; Topogenesis; Biogenesis (Borst, P. (1008) 1)

Glycosphingolipid
Phase transition; Cholesterol; Freeze-etching; Phospholipid bilayer; Electron microscopy (Rock, P. (979) 347)

Ganglioside; Spin label; Liposome; Freeze-etch; ESR (Mehlhorn, I.E. (986) 281)

Ganglioside; Cartilage; Lipid characterization; (Pig cortical bone); (Pig cartilage) (Fukaya, N. (1004) 108)

Glycosphingolipid hydrolase
Acid ceramidase; Farber disease; Sphingomyelinase; Lysosomal enzyme; (Human spleen) (Al, B.J.M. (1004) 245)

Glycosylation
5′-Nucleotidase; Laminin receptor, 68 kDa; Peptide map (Risse, G. (994) 258)

Interleukin; Lymphokine; Gene expression; Amino terminal protein sequence; (Monkey kidney cells); (Murine interleukin gene) (Ramanathan, L. (1007) 283)

Glycosylation, asymmetric
Immunoglobulin G, asymmetric; (Human serum) (Borel, I.M. (990) 162)

***O*-Glycosyl bond cleavage**
Pancreatic stone protein; Pancreatic calculi; Amino acid sequence; Amino terminal 5-oxoproline; Carbohydrate content; (Human) (De Caro, A.M. (994) 281)

Glyoxalase
Glutathione peroxidase; Glutathione *S*-transferase; (Bovine) (Hayes, J.D. (994) 21)

Glyoxalase II
Mitochondrion; Kinetic constant; Immunochemical characterization; (Rat liver) (Talesa, V. (993) 7)

Glyoxysome
Microbody; Peroxisome; Glycosome; Protein translocation; Topogenesis; Biogenesis (Borst, P. (1008) 1)

cyclic GMP
Aldosterone; Adrenal cortex; Atrial natriuretic peptide; (Chicken) (Rosenberg, J. (1014) 189)

Nitroprusside; Fluoroaluminate; Calcium ion flux; Protein kinase C; (Human platelet) (Deana, R. (1014) 203)

Golgi apparatus
Intestinal lipoprotein; Chylomicron formation; Endoplasmic reticulum; VLDL (Nutting, D. (1004) 357)

Golgi complex
Lipid transport; Fatty acid transport; Monensin; (Leek seed) (Bertho, P. (978) 91)

Golgi vesicle
Proalbumin variant; Proalbumin convertase (Brennan, S.O. (993) 48)

Gonadotroph primary culture
Lutropin biosynthesis; Castanospermine; Swainsonine; Oligosaccharide, *N*-linked; (Rat) (Hattori, M.-a. (992) 272)

GP IIb-IIIa
Glycoprotein; Platelet activation; cyclic AMP; Inositol phosphate; Protein phosphorylation; Fibrinogen (Sinigaglia, F. (984) 225)

G protein
Lateral diffusion; Rod outer segment; Visual transduction; Rhodopsin; Transducin (Saxton, M.J. (979) 27)

Lymphocyte, B; Transmembrane signalling; Surface immunoglobulin; Phospholipase C; Inositol phospholipid (Monroe, J.G. (1013) 273)

Gramicidin
Bilayer thickness; Hexagonal H_{II} phase formation; NMR, ^{31}P-; Small angle X-ray diffraction; Lipid polymorphism (Killian, J.A. (978) 341)

Model membrane; Membrane potential; Cable equation; Black lipid membrane; Glycerol monooleate (Fromherz, P. (987) 222)

Gramicidin A
Cholesterol; Channel inactivation; Lipid bilayer; (Erythrocyte) (Schagina, L.V. (978) 145)

Molecular modeling; Phosphatidylcholine; AMBER (Meulendijks, G.H.W.M. (979) 321)

Ion channel; Radiolysis; Photolysis; Lipid membrane (Strässle, M. (980) 305)

Lipid bilayer; NMR (Cornell, B.A. (985) 229)

Open channel noise; Channel block; Sodium ion transport; Proton transport (Heinemann, S.H. (987) 8)

Gramicidin A, [Tau^{16}]-
Des(ethanolamine)-taurine^{16}-gramicidin A; Single-channel conductance; Ion channel; Planar membrane (Roeske, R.W. (982) 223)

Gramicidin S
Melittin; Surfactant; Membrane permeability; Phospholipid release; Cell shape (Katsu, T. (983) 135)

α-Granule
Carbamoylpiperidinoalkane; *N*-Alkylnipecotoylpiperazine; Platelet aggregation inhibitor; Serotonin release inhibitor; Platelet factor 4 release inhibitor; Structure-activity relationship; Dense body; Platelet plasma membrane (Dillingham, E.O. (990) 128)

Granule secretion
Heavy metal cation; Divalent cation; Digitonin; Calcium ion; Polymorphonuclear leukocyte; Sulfhydryl oxidation; (Human neutrophil) (Sandborg, R.R. (1010) 330)

Granulocyte
Monoamine oxidase; Lymphocyte; Inhibitor sensitivity; Kinetic constant; Pargyline binding; (Human) (Dolors Balsa, M. (992) 140)

Greening
Oxygen evolution; S state; Hydroxylamine; Chloroplast (Franck, F. (977) 215)

Growth factor
Glucose transport; Glucose transporter mRNA; Serum; Phorbol ester; (Mouse fibroblasts 3T3) (Kitagawa, T. (980) 100)

Protein p68; Protein kinase C; Macrophage colony stimulating factor; Platelet derived growth factor; Insulin; (Placental syncytiotrophoblast) (Kenton, P. (1014) 271)

Protein synthesis; Protein dephosphorylation; Eukaryotic initiation factor; (Ehrlich ascites tumor cell) (Montine, K.S. (1014) 282)

Growth hormone
cDNA sequence; Amino acid sequence; Sequence homology; (Carp, *C. carpio*) (Chao, S.-C. (1007) 233)

Pregrowth hormone; cDNA cloning; Nucleotide sequence; Gene expression; (Ovine pituitary) (Warwick, J.M. (1008) 247)

Mitogen regulated protein; Proliferin; Mouse prolactin; Gene expression; Promoter sequence (Connor, A.M. (1009) 75)

Nucleotide sequence; Amino acid sequence; Homology; (Salmon) (Sekine, S. (1009) 117)

Microsomal membrane; Hormone receptor; Somatotropin; Prolactin; Cross-linking; (Rat hepatocyte) (Robetto, E.J. (1013) 223)

Growth hormone cDNA
Recombinant DNA; Gene dosage effect; cDNA expression; (*E. coli* vector); (Human gene) (Yamakawa, M. (1009) 156)

Growth hormone promoter
DNA methylation; Transcriptional control; (Rat) (Gaido, M.L. (1008) 234)

Growth mechanism
Myelin figure; Phosphatidylcholine; Cryo-stage system; Scanning electron microscopy (Sakurai, I. (985) 101)

Growth model
Non-equilibrium thermodynamics; Thermodynamic efficiency; Chemostat; Growth yield; (*P. oxalaticus* OX1) (Rutgers, M. (973) 302)

Chemostat; Thermodynamics, non-equilibrium; Microbial growth; (*K. aerogenes*) (Rutgers, M. (977) 142)

Growth promoting factor
Transferrin; Myeloid leukemia cell; (Horse serum); (Human cell) (Yoshinari, K. (1010) 28)

Growth regulation
Colorectal cancer; Ribosomal protein; Gene expression; Tumor marker; Nucleotide sequence; (Human) (Chester, K.A. (1009) 297)

Growth related proteolysis
Proteinase inhibition; Cell proliferation; (Human fibroblast) (Scott, G.K. (1010) 160)

Growth yield
Non-equilibrium thermodynamics; Thermodynamic efficiency; Chemostat; Growth model; (*P. oxalaticus* OX1) (Rutgers, M. (973) 302)

***g* tensor (= 4.1)**
ESR Signal II_s; Manganese multiline; Charge recombination; Activation energy; (Spinach) (Inui, T. (973) 147)

GTP
Electropermeabilization; Plasma membrane; cyclic AMP; β-Adrenergic receptor; C6 glioma cell (Volker, T.T. (984) 243)

GTPase
Phosphoinositide hydrolysis; Atrial natriuretic factor; (Cultured bovine smooth muscle cell) (Hirata, M. (1010) 346)

GTPase activity
Dynein; Isozyme; ATPase activity; (Sea urchin egg) (Rose, P.M. (990) 31)

GTP binding protein
N-Formyl peptide receptor; Phospholipid vesicle; Reconstitution; Detergent extraction (Cupo, J.F. (982) 31)

Mono(ADP-ribosyl)ation; Mono(ADP-ribosyl)transferase; Adenylate cyclase; Epinephrine; (Human platelet membrane) (Tanuma, S. (1010) 246)

Brush-border membrane; Basal lateral membrane; Cholera toxin; ADP-ribosylation; Adenylate cyclase; (Rabbit intestine) (Longbottom, D. (1014) 289)

GTPγS
Leukemia cell; Streptolysin O; Inositol phosphate; Inositol phospholipid turnover; Antigen stimulation; (Permeabilized RBL-2H3 cell) (Ali, H. (1010) 88)

Guanine nucleotide binding protein
Tissue distribution; Membrane protein; (Human); (Rat) (Hinsch, K.-D. (1013) 60)

Guanine nucleotide exchange
Protein synthesis; Initiation factor 2; Protein phosphorylation; (*Artemia*) (Mateu, M.G. (1007) 55)

Guanyl radical
DNA oxidation; Antioxidant; DNA repair; Free radical (Jovanovic, S.V. (1008) 39)

H

Haloalkaliphile
Archaebacterium; Phospholipid; Cyclized phosphate; Complex lipid; (*N. occultus*) (Lanzotti, V. (1001) 31)

Halocarbon
NMR, ^{31}P-; Hepatotoxicity; Carbon tetrachloride; Bromotrichloromethane; Hepatotoxin (Towner, R.A. (993) 92)

Halophile
Archaebacterium; Phospholipid; Phosphatidic acid (Lanzotti, V. (1002) 398)

Halotolerance
Sodium ion–proton exchange; Reconstitution; (*Dunaliella*) (Katz, A. (983) 9)

Halotolerant alga
Kinetics; Enzyme characterization; Vanadate sensitive ATPase; (*D. salina*) (Weiss, M. (974) 254)

Harmonic force constant
Polypeptide; Side chain (Balázs, A. (998) 215)

Harned's rule
Bacteriorhodopsin; Hill plot; Chloride ion activity; Blue acidic form; Purple acidic form (Drachev, A.L. (976) 190)

HDL
Hepatic lipase; Triacylglycerol lipase; Lipoprotein lipase; Cholesteryl ester transfer reaction; (Human) (Simard, G. (1001) 225)

Lipid transfer protein; Cholesteryl ester transfer protein; Apolipoprotein A-I; Apolipoprotein E; Apolipoprotein A-IV; (Rat) (Groener, J.E.M. (1002) 93)

Hepatic lipase deficiency; Lipoprotein lipase; LDL; Triacylglycerol; (Rabbit) (Clay, M.A. (1002) 173)

Apolipoprotein A-IV; Amino acid sequence; DNA sequence; Lecithin–cholesterol acyltransferase; Sequence heterogeneity (Yang, C.-y. (1002) 231)

Apolipoprotein A-I; Apolipoprotein A-II; Immunoaffinity chromatography; Monoclonal antibody; (Human) (James, R.W. (1002) 292)

Cholesteryl ester; Selective uptake; Murine adrenocortical cell; Plasma membrane; Cholesteryl ether (Knecht, T.P. (1002) 365)

Lipid transfer protein; Esterified cholesterol transfer; Triacylglycerol transfer; Lipoprotein; Lipoprotein modification; (Rabbit) (Abbey, M. (1003) 20)

Bile acid; Biliary secretion; Cholesterol metabolism; LDL; (Rat liver) (Bravo, E. (1003) 315)

LDL; Cholesterol transfer; Cholesterol esterification; (Human adipocyte) (Fong, B.S. (1004) 53)

Lipoprotein uptake; In situ perfusion; (Rat) (Azhar, S. (1004) 61)

Hypothyroidism; VLDL; LDL; Lipoprotein distribution; (Rat plasma) (Meyer, B.J. (1004) 73)

Blood-brain barrier; (Bovine brain endothelial cell) (Martin-Nizard, F. (1005) 201)

Apolipoprotein; Lipoprotein assembly; Secretion; Transfection; (Chicken) (Dixon, J.L. (1009) 47)

HDL_3
Dehydroepiandrosterone; Steroid hormone; Steroid esterification; Lipoprotein (Leszczynski, D.E. (1014) 90)

HDL conversion
Lecithin:cholesterol acyltransferase; Particle size profile; Chemical crosslinking; Lipoprotein metabolism; (Human plasma) (Nichols, A.V. (1001) 325)

HDL metabolism
Serum amyloid A; Lecithin–cholesterol acyltransferase; Cholesteryl ester; (Human plasma) (Steinmetz, A. (1006) 173)

HDL receptor
Monocyte-derived macrophage; Retroendocytosis; Reverse cholesterol transport; Atherosclerosis; (Human macrophage) (Alam, R. (1004) 292)

HDL structure
Lipoprotein lipase; Hepatic lipase; Heparin; Crosslinking; Apolipoprotein (Swaney, J.B. (1002) 338)

Heart
Glucose oxidation; Diabetes; Fatty acid; Carnitine acyltransferase; Cardiac function (Wall, S.R. (1006) 97)

Heart muscle
Patch clamp; Sodium channel; Angiotensin II; Protein kinase C; Phosphorylation; (Guinea pig) (Nilius, B. (1014) 259)

Heart muscle microsome
Acyl-CoA; Coenzyme A; Lysophosphatidylcholine; Phosphatidylcholine; Transacylase (Sanjanwala, M. (1006) 203)

Heart protein kinase
cyclic AMP; Junctional conductance; Isoproterenol (De Mello, W.C. (1012) 291)

Heat denaturation
β-Lactoglobulin; Protein conformation; Monoclonal antibody (Kaminogawa, S. (998) 50)

Heat labile enterotoxin
Binding substance; Hemagglutinating activity; (*E. coli*) (Sugii, S. (980) 155)

Binding substance; Enterotoxin; (Chicken); (*E. coli*) (Sugii, S. (983) 30)

Heat shock protein 90
Estrogen receptor; Estrogen (Iwasaki, M. (992) 1)

Genomic DNA; Operon; *dnaK-dnaJ* deletion mutant; DNA; (*E. coli*) (Ohki, R. (1009) 94)

Heat shock protein mRNA
Stress induced gene expression; Metallothionein mRNA; Heavy metal; Gene expression; mRNA; (Fish cell lines) (Misra, S. (1007) 325)

Heavy metal
Stress induced gene expression; Heat shock protein mRNA; Metallothionein mRNA; Gene expression; mRNA; (Fish cell lines) (Misra, S. (1007) 325)

Heavy metal cation
Divalent cation; Granule secretion; Digitonin; Calcium ion; Polymorphonuclear leukocyte; Sulfhydryl oxidation; (Human neutrophil) (Sandborg, R.R. (1010) 330)

Hemagglutinating activity
Binding substance; Heat labile enterotoxin; (*E. coli*) (Sugii, S. (980) 155)

Hemagglutinin-neuraminidase
Newcastle disease virus; Sialidase; Protein M (García-Sastre, A. (999) 171)

Hematoporphyin ester
Porphyrin; Hydrophobic alcohol (Rimington, C. (992) 241)

Hematoporphyrin derivative
Photodynamic effect; Hyperthermia; Repair; L929 cells; 2-Aminoisobutyric acid transport; Protein synthesis (Boegheim, J.P.J. (979) 215)

Photodynamic effect; Cytotoxicity; Clonogenicity; (Mouse L929 fibroblast); (Chinese hamster cell) (Boegheim, J.P.J. (1012) 237)

Heme
Reaction center; Electron transfer; Cytochrome *c*; Redox potential; (*Rps. viridis*) (Fritzsch, G. (977) 157)

Protein sequence; Membrane protein; Cytochrome, *b*-type; Secondary structure prediction; Histidine ligand (Degli Esposti, M. (977) 249)

Heme catabolism
Heme oxygenase; Bile pigment (Lincoln, B.C. (992) 49)

Heme oxygenase
Heme catabolism; Bile pigment (Lincoln, B.C. (992) 49)

Heme protein
Hemoglobin α-chain; Myoglobin; Pulse radiolysis; Hydrated electron (Pin, S. (994) 47)

Heme recognition
Etioheme; Myoglobin; Coordination structure; Oxygen binding (Neya, S. (996) 226)

Heme synthesis
Adriamycin; Erythroid differentiation; Globin synthesis; (Human erythroleukemic cell) (Trentesaux, C. (1012) 161)

Heme synthesis inhibition
Iron metabolism; Iron localization; (Rat reticulocyte) (Adams, M.L. (1012) 243)

Hemicholinium-3
Phosphatidylcholine biosynthesis; Electropermeabilization; Choline uptake; Rat glioma; Cellular compartmentation (George, T.P. (1004) 283)

Hemichrome
Hemoglobin; Fatty acid; Lipid peroxidation (Akhrem, A.A. (992) 191)

Hemimethylated *Eco*RI site
5-Azacytidine; Gene expression; Thymidine kinase promoter; DNA methylation; (HSV *tk* gene); (Thymidine kinase deficient human cell) (Tasseron-de Jong, J. (1008) 62)

Hemin
Erythrocyte membrane; ESR; Sialic acid motion; Membrane protein skeletal network; Protein–carbohydrate interaction (Wyse, J.W. (979) 121)

Protein 4.1; Spectrin; Actin; Fluorescence; Circular dichroism (Solar, I. (983) 199)

Hemocyanin
Disulfide bridge; Cooperativity; (*P. interruptus*) (Neuteboom, B. (998) 126)

Hemoglobin
Liposome; Octyl glucoside; Octyltetraoxyethylene; Blood surrogate; (Human blood) (Jopski, B. (978) 79)

Potassium ion transport; *N*-Ethylmaleimide; Peroxide; Thiol; Erythrocyte; (Human) (Sheerin, H.E. (983) 65)

Hemichrome; Fatty acid; Lipid peroxidation (Akhrem, A.A. (992) 191)

Spin transition; Intramolecular reaction; ESR; Temperature jump; Protein dynamics (Steinhoff, H.-J. (996) 49)

Protein structure; XANES (Congiu Castellano, A. (996) 240)

Hemoglobin Nouakchott; Hemoglobin variant; Alpha chain; Hydrophobicity; HPLC; (Human) (Wajcman, H. (998) 25)

NMR, $^{35}Cl^-$-; Anion binding; (Dromedary) (Lundberg, P. (999) 12)

Delta variant; Unstable hemoglobin; δ-Thalassemia; DNA amplification; Sequencing; Peptide analysis (Codrington, J.F. (1009) 87)

Hemoglobin A
Met-azido derivative; Subunit assembly; NMR, H^+ (Yamamoto, Y. (996) 187)

Hemoglobin α-chain
Heme protein; Myoglobin; Pulse radiolysis; Hydrated electron (Pin, S. (994) 47)

Hemoglobin, dimeric
Amino acid sequence; Globin; Phylogenetic relationship; (*C. soyoae*) (Suzuki, T. (999) 254)

Hemoglobin IV
Amino acid sequence; (Trout) (Petruzzelli, R. (995) 255)

Hemoglobin Nouakchott
Hemoglobin; Hemoglobin variant; Alpha chain; Hydrophobicity; HPLC; (Human) (Wajcman, H. (998) 25)

Hemoglobin variant
Hemoglobin; Hemoglobin Nouakchott; Alpha chain; Hydrophobicity; HPLC; (Human) (Wajcman, H. (998) 25)

Hemolysin
Invertebrate; Sphingomyelin; Complement; Polymerization; Membrane lesion; (Sheep erythrocyte); (Earthworm) (Roch, P. (983) 193)

Ion channel; Single-channel current; Current-voltage characteristic; Phospholipid bilayer; Selectivity; pH dependence; (*E. coli*) (Ropele, M. (985) 9)

Cytolysin; Erythrocyte membrane; (Sea anemone) (Doyle, J.W. (987) 181)

Hemolysis
Erythrocyte; Thermal denaturation; Hyperthermia; Membrane protein; DSC (Lepock, J.R. (980) 191)

Hemolytic agent
Divalent cation; Proton; Calcium ion, extracellular; Membrane damage; Zinc ion, extracellular; Plasma membrane (Bashford, C.L. (983) 56)

Hemolytic anemia
Copper; Iron; Ascorbate; Oxidative damage; Thalassemia; (Human red blood cell) (Shinar, E. (1014) 66)

Hemoprotein
Cytochrome *P*-450; Axial ligand; Mutagenesis, site directed (Shimizu, T. (995) 116)

Hemosiderin
Iron core; Polypeptide shell; (Hemochromatosis) (Ward, R.J. (993) 131)

Heparan sulfate
Proteoglycan; Heparin; Phospholipase C; Phosphatidylinositol specific phospholipase C; (Rat heart cell) (Chajek-Shaul, T. (1014) 178)

Heparin
Amyloid; Amyloidosis; Glycosaminoglycan; Dextran sulfate (Hamazaki, H. (998) 231)

Hepatic lipase; Enzyme characterization; (Golden hamster) (Jansen, H. (1001) 44)

Intralipid; Lecithin : cholesterol acyltransferase; Lipolysis (Amr, S. (1001) 145)

Lipoprotein lipase; Hepatic lipase; HDL structure; Crosslinking; Apolipoprotein (Swaney, J.B. (1002) 338)

Hepatic lipase secretion; (Rat hepatoma cell) (Cisar, L.A. (1004) 196)

Heparan sulfate; Proteoglycan; Phospholipase C; Phosphatidylinositol specific phospholipase C; (Rat heart cell) (Chajek-Shaul, T. (1014) 178)

Heparin binding
Vitronectin; Serum spreading factor; Cell spreading assay; Monoclonal antibody; (Human plasma) (Izumi, M. (990) 101)

Plasminogen; Lysine residue (Soeda, S. (999) 29)

Heparin fragment
Collagen; Fibronectin; Smooth muscle cell; Biosynthesis; Modulation; (Pig) (Asselot-Chapel, C. (993) 240)

Heparin-Sepharose
Protein phosphatase-1; Protein phosphatase-2A; Polycation; Thymocyte; (Rat) (Bakó, É. (1013) 300)

Hepatic enzyme
Cholesterol metabolism; Sterol binding; (Rat liver microsome) (Suckling, K.E. (1002) 401)

Hepatic lectin
β-Galactoside binding lectin; Lectin; Characterization (Ali, N. (992) 30)

Hepatic lipase
Heparin; Enzyme characterization; (Golden hamster) (Jansen, H. (1001) 44)

Triacylglycerol lipase; HDL; Lipoprotein lipase; Cholesteryl ester transfer reaction; (Human) (Simard, G. (1001) 225)

Lipoprotein lipase; Heparin; HDL structure; Crosslinking; Apolipoprotein (Swaney, J.B. (1002) 338)

Hepatic lipase deficiency
Lipoprotein lipase; HDL; LDL; Triacylglycerol; (Rabbit) (Clay, M.A. (1002) 173)

Hepatic lipase secretion
Heparin; (Rat hepatoma cell) (Cisar, L.A. (1004) 196)

Hepatic metabolism
Protein phosphatase; Inhibitor protein; Amino acid sequence; Glucagon; Immunoblotting; (Rabbit); (Rat) (MacDougall, L.K. (1010) 218)

Hepatic triacylglycerol lipase
Lipoprotein lipase; Chylomicron; Tumor necrosis factor; (Human) (Chajek-Shaul, T. (1001) 316)

Hepatocellular plasma membrane protein
Bile acid transport; Photoaffinity labeling; (Rat liver) (Ziegler, K. (980) 161)

Hepatocyte
Apolipoprotein synthesis; Flotation property; Lipoprotein assembly; (Rat) (Hussain, M.M. (1001) 90)

Prostaglandin E_2 catabolism; (Rat) (Brass, E.P. (1010) 233)

Hepatocyte culture
Vitamin A metabolism; Extracellular matrix; Transforming growth factor; (Ito cell); (Hepatocyte); (IEC-6 intestinal cell) (Davis, B.H. (1010) 318)

Hepato-renal syndrome
Bilirubin; Albumin; Jaundice; Anion transport; Protein binding; (Rat) (Sugi, K. (987) 217)

Hepatotoxicity
NMR, ^{31}P-; Carbon tetrachloride; Bromotrichloromethane; Halocarbon; Hepatotoxin (Towner, R.A. (993) 92)

Hepatotoxin
NMR, ^{31}P-; Hepatotoxicity; Carbon tetrachloride; Bromotrichloromethane; Halocarbon (Towner, R.A. (993) 92)

Hep G_2 cell
Sphingomyelin; Ceramide; Glucoceramide; Peritoneal macrophage; J774 macrophage; (Rat liver) (Stein, O. (1003) 175)

Heptane-1,2,3-triol
Crystal structure; Amphiphilic compound (Müller-Fahrnow, A. (978) 176)

Herbicide
Diuron; Photosystem II; Photosynthesis; (*C. reinhardtii*) (Galloway, R. (975) 66)

Herpes simplex virus
DNA binding protein; ssDNA; Protein ICP8; ICP8 (Leinbach, S.S. (1008) 281)

Heteroduplex
Mitochondrial myopathy; mitochondrial DNA; S_1 nuclease; Polymerase chain reaction; Oligonucleotide primer (Tanaka-Yamamoto, T. (1009) 151)

Heterogeneity
Lipid bilayer; Phase transition; Interface active molecule; Cholesterol; Density fluctuation; Lateral compressibility (Cruzeiro-Hansson, L. (979) 166)

Hevein
Wheat germ agglutinin; Circular dichroism; Disulfide bridge (Rodríguez-Romero, A. (998) 21)

Hexabromoiridate (IV)
Hexacyanoferrate (III); Hexachloroiridate (IV); Plasmalemma; Redox; (*Z. mays* L.) (Lüthje, S. (977) 335)

Hexachlorobiphenyl
Vitamin A metabolism; (Rat) (Bank, P.A. (990) 306)

Hexachloroiridate (IV)
Hexabromoiridate (IV); Hexacyanoferrate (III); Plasmalemma; Redox; (*Z. mays* L.) (Lüthje, S. (977) 335)

Hexacyanoferrate (III)
Hexabromoiridate (IV); Hexachloroiridate (IV); Plasmalemma; Redox; (*Z. mays* L.) (Lüthje, S. (977) 335)

Hexagonal H_{II} phase
Dielaidoylphosphatidylethanolamine; Phase behavior; *n*-Alkanol; NMR, ^{31}P-; Spectrophotometry (Veiro, J.A. (979) 251)

Transition temperature; Lipid vesicle; Phosphatidylethanolamine (Brown, P.M. (980) 181)

Lipid phase transition; Inverted hexagonal phase; Cryoprotectant; Hofmeister effect; Phosphatidylethanolamine (Koynova, R.D. (980) 377)

Cardiolipin; Diphosphatidylglycerol; NMR, ^{31}P-; Non-lamellar phase (Sankaram, M.B. (980) 389)

Trehalose; Dioleoylphosphatidylethanolamine; DSC; Fourier transform infrared spectroscopy; X-ray diffraction (Wistrom, C.A. (984) 238)

Lipid polymorphism; Non-bilayer; Fluorescence; Cardiolipin (Stubbs, C.D. (986) 89)

Dioleoylphosphatidylcholine bilayer; Water/lipid system; Lamellar phase; Rippled phase; X-ray diffraction (Bradshaw, J.P. (987) 104)

Hexagonal H_{II} phase formation
Gramicidin; Bilayer thickness; NMR, ^{31}P-; Small angle X-ray diffraction; Lipid polymorphism (Killian, J.A. (978) 341)

Hexaprenyl-diphosphate synthase
Prenyltransferase; Sulfhydryl reagent; Arginine specific reagent; Enzyme inactivation; Enzyme protection; (*M. luteus* B-P 26) (Yoshida, I. (995) 138)

Hexokinase
Tumor cell mitochondria; Glycolysis; Adenylate kinase; Oxidative phosphorylation; (HT29 cell) (Gauthier, T. (975) 231)

Contact site; Mitochondrion; Peripheral kinase; Creatine kinase; Nucleoside-diphosphate kinase (Adams, V. (981) 213)

Hexokinase deficiency
NMR, ^{31}P-; Magnesium ion, intracellular; Pyruvate kinase deficiency; (Human red blood cell) (Ouwerkerk, R. (1010) 294)

Hexose transport
Phlorizin binding; Sodium ion cotransport; (Opossum kidney cell line) (Van den Bosch, L. (979) 91)

2-Deoxy-D-glucose accumulation; 2-Deoxy-D-glucose 6-phosphate accumulation; 3-*O*-Methyl-D-glucose transport; (Rat adipocyte) (Thompson, K.A. (1011) 58)

High affinity receptor
Cholecystokinin peptide; Low affinity receptor; Cholecystokinin receptor; CCK-JMV-180; (Pancreatic acinus) (Stark, H.A. (1010) 145)

High density lipoprotein
Phosphatidylcholine; Lipid emulsion; (Rat) (Martins, I.J. (1005) 217)

Lecithin–cholesterol acyltransferase; Lipoprotein lipase; Cholesterol ester transfer reaction; (Human plasma) (Simard, G. (1005) 245)

Fatty acid uptake; Cholesteryl ester; Polyunsaturated fatty acid; (Rat hepatocyte) (Pepin, D. (1006) 52)

Cell proliferation; Virus transformed cell; Lymphoblastoid cell; (Human) (Favre, G. (1013) 118)

High energy phosphate
Glycolysis; Muscle contraction; (Pig) (Barron, J.T. (976) 42)

High energy state
Chlorophyll fluorescence; Non-photochemical quenching; Photoinhibition; Relaxation kinetics; State transition (Hodges, M. (974) 289)

High mobility group protein
Nucleosome assembly; (Pig thymus) (Waga, S. (1007) 209)

Chromatin–protein interaction; Nonhistone protein; (Calf thymus) (Bernués, J. (1008) 52)

High mobility group protein, low molecular mass
Low molecular mass HMG protein; Antibody (Lundberg, K. (1009) 277)

High molecular weight cysteine proteinase
ATP activated proteolysis; Multicatalytic proteinase; Proteinase-α_1-macroglobulin complex; Reticulocyte; (Rabbit) (Kuehn, L. (991) 263)

High pressure
Bacteriorhodopsin; Photocycle; Reconstitution; Spectroscopy (Park, D.-G. (973) 19)

Small angle neutron scattering; Phosphatidylcholine; Phase transition (Winter, R. (982) 85)

Methionine repressor; (*E. coli*) (Wong, P.T.T. (996) 260)

Chymotrypsin; Secondary structure; Raman (Heremans, L. (999) 192)

High redox potential
Cytochrome *c*-552; Acid stable; (*T. ferrooxidans*) (Sato, A. (976) 129)

Hill plot
Bacteriorhodopsin; Harned's rule; Chloride ion activity; Blue acidic form; Purple acidic form (Drachev, A.L. (976) 190)

Histamine
Ascorbate; *N*-Acetylhistamine (Uchida, K. (991) 377)

Tryptase; Divalent cation; (Human mast cell) (Alter, S.C. (991) 426)

Histamine release
Thapsigargin; Arachidonic acid metabolism; Prostaglandin D_2; (Rat peritoneal mast cell) (Ohuchi, K. (1003) 9)

Histidine
Photosynthesis; Manganese; Oxygen evolution; D1 protein; (Wheat) (Tamura, N. (973) 281)

Photosynthesis; Manganese; Oxygen evolution; D1 protein; *Scenedesmus* mutant (LF-1) (Seibert, M. (974) 185)

Endopeptidase; Active site; Substrate specificity; (Maize root) (Batt, R. (990) 109)

L-Asparaginase; Tyrosine; Chemical modification; NMR, ^{1}H-; (*E. coli*) (Bagert, U. (999) 36)

Lipid peroxidation; Glutathione; L-Carnosine; Dipeptide; (Posterior subcapsular cataract) (Babizhayev, M.A. (1004) 363)

Histidine incorporation
Thiamin biosynthesis; Pyrimidine moiety; (*S. cerevisiae*) (Tazuya, K. (990) 73)

Histidine ligand
Protein sequence; Membrane protein; Cytochrome, *b*-type; Secondary structure prediction; Heme (Degli Esposti, M. (977) 249)

Histidine reactivity
Secretin; Secretin structure; Imidazole; Ionization constant (Hefford, M.A. (998) 267)

Histidine residue
ATPase, H^+-; Transport ATPase; Plasma membrane; Essential histidine; Membrane transport (Morjana, N.A. (985) 19)

Pituitary bovine growth hormone; NMR, ^{1}H- (MacKenzie, N.E. (994) 166)

Histone
Transcription; Myoblast; Differentiation; Gene regulation; (Rat) (Larson, D.E. (1009) 177)

Core particle; Chromatosome; Micrococcal nuclease; (Chicken erythrocyte) (Lindsey, G.G. (1009) 257)

Insulin-like effect; Adipocyte; Glucose incorporation; Glucose phosphorylation; (Rat) (McCroskey, M.C. (1011) 212)

Histone gene family
Gene cloning; Genomic organization; Gene characterization; (*Tilapia* fish) (Englander, E. (1007) 277)

Histone $H1^0$
Protein evolution; Differentiation; Protein characterization; (Maize root) (Srebreva, L. (1008) 346)

Histone H4 gene
Germinal gene; Gene structure; Gene expression; Histone mRNA; mRNA (Wolfe, S.A. (1007) 140)

Histone-like protein
Nucleoid; DNA binding protein; Enzyme purification; (*B. subtilis*) (Salti, V. (1009) 161)

Histone methylation
(Sea urchin embryo) (Aniello, F. (1008) 31)

Histone mRNA
Germinal gene; Histone H4 gene; Gene structure; Gene expression; mRNA (Wolfe, S.A. (1007) 140)

Histone subtype
HPLC; Protein refolding; DNA fragment; (Rat liver) (Tchouatcha-Tchouassom, J.C. (1009) 121)

HIV
Nucleotide composition; CpG content; HTLV 1/2 (Kypr, J. (1009) 280)

HIV-1
Transactivating protein; Nuclear matrix; viral mRNA (Müller, W.E.G. (1008) 208)

HL-60 cell
S-Adenosyl-L-methionine; Plasma membrane; Leukemia (Duerre, J.A. (985) 211)

HMG-CoA lyase
Acetoacetate; Acetyl-CoA; Mevalonate catabolism; (*P. mevalonii*) (Scher, D.S. (1003) 321)

HMG-CoA reductase
25-Hydroxycholesterol (Von Gunten, C.F. (1001) 218)

Cholesterol gallstone; Gallstone; Lithogenic index; Enzyme inhibition; Hyperlipidemia; (Hamster) (Koide, K. (1005) 65)

HMG protein
Domain structure; Limited proteolysis; *Staphylococcus aureus* proteinase; Endoproteinase GluC (Abdul-Razzak, K.K. (996) 125)

Hofmeister effect
Lipid phase transition; Inverted hexagonal phase; Cryoprotectant; Phosphatidylethanolamine; Hexagonal H_{II} phase (Koynova, R.D. (980) 377)

H_2O_2 formation
Photosystem II; O_2 evolution; Sucrose effect; Catalase effect; (Spinach) (Wydrzynski, T. (973) 23)

Homologous recombination
RecA protein; ssDNA binding protein (Radding, C.M. (1008) 131)

Homology
Growth hormone; Nucleotide sequence; Amino acid sequence; (Salmon) (Sekine, S. (1009) 117)

Homopolymer
α-Crystallin; Lens protein; Hybrid (Thomson, J.A. (994) 246)

Hormonal effect
Fetal lipogenesis; Primary culture; (Rat hepatocyte) (Roncero, C. (1012) 320)

Hormonal regulation
Plasma lipoprotein; Lipoprotein (a); Lipoprotein metabolism; (Hedgehog) (Laplaud, P.M. (1005) 143)

Hormone receptor
Mitogenesis; Calcium ion; Calcium ionophore; Ionomycin; Lymphocyte activation; Calmodulin (Jy, W. (983) 153)

Microsomal membrane; Somatotropin; Prolactin; Growth hormone; Cross-linking; (Rat hepatocyte) (Robetto, E.J. (1013) 223)

Hormone response
Epithelial cell; Cell clone; Cell heterogeneity; (MDCK cell) (Nakazato, Y. (1014) 57)

Hormone sensitive lipase
Adipose tissue; mRNA; cDNA; Lipase; (Human) (Holm, C. (1006) 193)

Horseradish peroxidase
Superoxide anion; Pulse radiolysis (Shimizu, N. (995) 133)

Protoporphyrin IX; Fluorescence (Jullian, C. (997) 206)

HPLC
Phosphate assay; Microsome; Membrane bound enzyme; Purine; Pyrimidine; ATPase (Missiaen, L. (990) 40)

1,2-Dibromoethane; Glutathione; Uncoupler; (Rat liver mitochondria) (Botti, B. (992) 327)

Bilirubin-IXβ; Bile; (Eel); (*A. japonica*) (Sakai, T. (993) 128)

Insulin-like growth factor; Isolation; Amino acid sequence; (Sheep) (Hey, A.W. (997) 27)

Hemoglobin; Hemoglobin Nouakchott; Hemoglobin variant; Alpha chain; Hydrophobicity; (Human) (Wajcman, H. (998) 25)

Ribonucleolytic activity; Base specificity; Vacuolar ribonuclease; (*L. esculentum*) (Abel, S. (998) 145)

Bile acid intermediate; Bile acid metabolism; GC-MS; (Rat liver peroxisome) (Östlund Farrants, A.-K. (1002) 198)

PAF; Lipid mediator; (*S. gairdneri*); (Trout spleen) (Turner, M.R. (1004) 49)

Cytokinin; *miaA*; Radioimmunoassay; Boronate chromatography; tRNA independent cytokinin-like compound; (*S. typhimurium (miaA)*) (Blum, P.H. (1007) 196)

Histone subtype; Protein refolding; DNA fragment; (Rat liver) (Tchouatcha-Tchouassom, J.C. (1009) 121)

α_2HS-glycoprotein
Disulfide bond; Glycoprotein; (Human plasma protein) (Araki, T. (994) 195)

hsp70 gene family
Glucose-regulated gene (grp78); Liver regeneration; Acute phase response; (Rat liver) (Krawczyk, Z. (1009) 237)

HSV *tk* gene
DNA transfection; 5-Azacytidine; DNA methylation, de novo; Gene inactivation; (Human cell line) (Tasseron-de Jong, J.G. (1007) 215)

HTLV 1/2
Nucleotide composition; CpG content; HIV (Kypr, J. (1009) 280)

Human cervix
Calmodulin; Recombinant interleukin 1α; Procollagenase; W-7; (Fibroblast) (Ojima, Y. (1011) 61)

Human gastric lipase
Gastric lipase; Lipase (Gargouri, Y. (1006) 255)

Human growth hormone
Lactogen; cyclic AMP; Nb_2 lymphoma; Protein phosphorylation (Kornberg, L.J. (1011) 205)

Human hepatoma cell line
Fatty acid metabolism; Carrier mediated transport; Membrane fatty acid binding protein (Stremmel, W. (1013) 218)

Human interferon-β1
Oligomer; Monomer; Inactivation; Reactivation; Detergent (Utsumi, J. (998) 167)

Human lens
γ-Crystallin; Oxidation; Hydrogen peroxide; Cataract; Photosensitizer; *N*-Formylkynurenine; Superoxide (Andley, U.P. (997) 284)

Human leukemia
Protein kinase C; RNA polymerase (Chuang, L.F. (992) 87)

Human malaria parasite
Adenine phosphoribosyltransferase; Purine salvage; (*P. falciparum*) (Queen, S.A. (996) 160)

Human platelet
pH sensitivity; Fructose 2,6-bisphosphate; Thrombin; Alkalinization (Vasta, V. (1011) 165)

Hyaluronate
Proteoglycan synthesis; Proteinase inhibitor; Articular cartilage; (Bovine) (Bolis, S. (993) 157)

Hyaluronidase; Glycosaminoglycan; (Human skin fibroblast) (Larnier, C. (1014) 145)

Hyaluronic acid
Insulin-like growth factor-I; Pericardium; Hyaluronic acid synthesis; (Rabbit) (Honda, A. (1014) 305)

Hyaluronic acid synthesis
Insulin-like growth factor-I; Hyaluronic acid; Pericardium; (Rabbit) (Honda, A. (1014) 305)

Hyaluronidase
Hyaluronate; Glycosaminoglycan; (Human skin fibroblast) (Larnier, C. (1014) 145)

Hybrid
Electrofusion; Hypo-osmolar medium; Osmotic pressure shock; Sorbitol; Albumin; Divalent cation; (Mammalian cell) (Schmitt, J.J. (983) 42)

α-Crystallin; Lens protein; Homopolymer (Thomson, J.A. (994) 246)

Hybrid protein
Porin; PhoE; Ion selectivity; Charged group; Lipid bilayer; (*E. coli* K-12 membrane) (Benz, R. (981) 8)

Hybrid toxin
Asialoglycoprotein; Diphtheria toxin; Toxin translocation; Receptor (Chang, T.-M. (1013) 239)

Hydrated electron
Heme protein; Hemoglobin α-chain; Myoglobin; Pulse radiolysis (Pin, S. (994) 47)

Hydration
Phospholipid; Curvature; Reorientational dynamics; ESR; Cholestane spin label; Lipid vesicle (Korstanje, L.J. (982) 196)

Phosphatidylserine; Unsaturated fatty acid chain; Magnesium ion complex; Fourier transform infrared spectroscopy; NMR, ^{31}P- (Casal, H.L. (982) 228)

Hydrocarbon
ATPase, Na^+/K^+-; ATPase inhibitor; Fatty acid; (Bovine plasma) (Tal, D.M. (985) 55)

Hydrogenase
Antibody; Hydrogen bacteria; Aerobic hydrogen bacterium (Lorenz, B. (995) 1)

Cyanobacterium; Immunochemical analysis; (*A. cylindrica*) (Ewart, G.D. (997) 83)

Nickel; Redox titration; Enzyme activity; (*M. thermoautotrophicum*) (Coremans, J.M.C.C. (997) 256)

Hydrogen bacteria
Hydrogenase; Antibody; Aerobic hydrogen bacterium (Lorenz, B. (995) 1)

π Hydrogen bond
Amide–aromatic interaction; Sulfur–aromatic interaction; Protein side chain contact; Molecular orbital calculation (Cheney, B.V. (996) 116)

Hydrogen bonding
Chlorophyll *a*; Resonance Raman; Intermolecular interaction; Spectroscopy; Photosynthesis (Krawczyk, S. (976) 140)

Cholesterol; Phosphatidylcholine; Fourier transform infrared spectroscopy (Wong, P.T.T. (980) 37)

Hydrogen evolution
ATP productivity; pH dependence; NAD; Membrane bound hydrogenase; (*E. aerogenes*) (Tanisho, S. (973) 1)

Hydrogen ion activation
Potassium ion channel; Divalent cation activation; Voltage activation; Cation selectivity; Pancreatic islet cell (Tabcharani, J.A. (982) 62)

Hydrogen ion
ATPase mutant; ATP synthesis; Sodium ion; (*V. parahaemolyticus*) (Sakai, Y. (973) 450)

Hydrogen oxidation
Nitrogen fixation; ATP synthesis; Electron transport; Leghemoglobin (O'Brian, M.R. (974) 229)

Hydrogen peroxide
Mass spectrometry; Filamentous cyanobacterium; Photosystem II; Respiration; (*O. chalybea*) (Bader, K.P. (974) 303)

Ligninase; Compound I; Compound II; Veratryl alcohol; Potassium ferrocyanide; One electron oxidation; Pre-steady-state kinetics (Harvey, P.J. (994) 59)

Human lens; γ-Crystallin; Oxidation; Cataract; Photosensitizer; *N*-Formylkynurenine; Superoxide (Andley, U.P. (997) 284)

Poly(ADP-ribose) metabolism; Cell killing; DNA single-strand break; (Chinese hamster ovary cell) (Cantoni, O. (1014) 1)

Hydrogen peroxide resistance
Antioxidant enzyme; Drug resistance; Catalase mRNA; mRNA stability; (MCF7) (Akman, S.A. (1009) 70)

Hydrolase
Oxazolone; 4-Alkylidene oxazolone; Active site; Fluorescence (Baese, H.-J. (990) 113)

Hydroperoxide decomposition
Phospholipid hydroperoxide; Lipid peroxidation; Phosphatidylethanolamine; Iron binding protein; (Human blood plasma) (Terao, J. (1003) 221)

Hydrophilic folate binding protein
Hydrophobic folate binding protein; Folate binding protein; (Human erythrocyte) (Antony, A.C. (979) 62)

Hydrophobic alcohol
Hematoporphyin ester; Porphyrin (Rimington, C. (992) 241)

Hydrophobic chromatography
Colchicine; Immobilized colchicine; Glyceraldehyde-3-phosphate dehydrogenase (Kocha, T. (991) 56)

Hydrophobic core
Photolabeling; Single bilayer vesicle; Depth dependent probe; 9-Diazofluorene-2-butyric acid (Lala, A.K. (978) 333)

Hydrophobic folate binding protein
Hydrophilic folate binding protein; Folate binding protein; (Human erythrocyte) (Antony, A.C. (979) 62)

Hydrophobic interaction chromatography
Phospholipase A_1; Lysosome protein; Triacinyl dye; (Rat liver) (Löffler, B.-M. (1003) 225)

Hydrophobic ion
Planar lipid bilayer; Wave guide spectroscopy (Braun, H.P. (978) 223)

Hydrophobicity
Anion transport; Contraluminal membrane; Molecular charge distribution; Sulfate (Fritzsch, G. (978) 249)

Hemoglobin; Hemoglobin Nouakchott; Hemoglobin variant; Alpha chain; HPLC; (Human) (Wajcman, H. (998) 25)

Surface hydrophobicity; Chemiluminescence; (Human polymorphonuclear leukocytes); (*E. coli*) (Steadman, R. (1013) 21)

Hydrophobic moment
Amphipathic alpha-helical peptide; Fusogen; Membrane fusion; Liposome; Cationic peptide; Polymyxin B (Suenaga, M. (981) 143)

Hydrophyl–hydrophobe balance
Anesthesia theory; Vesicle membrane; Interface; Two-dimensional nuclear Overhauser effect; Nuclear Overhauser difference spectroscopy (Yokono, S. (982) 300)

Hydrostatic pressure effect
Thick filament; myosin; Protein, C- (Tumminia, S.J. (999) 300)

***p*-Hydroxybenzoate hydroxylase**
Flavoprotein; Hydroxylase; Oxygenase (Entsch, B. (999) 313)

(22*R*)-22-Hydroxycholesta-4,6-dien-3-one
Cytotoxicity; 7,22-Dihydroxycholesterol; Microsome (Boberg, K.M. (1004) 321)

7-β-Hydroxycholesterol
Cell culture; Cell transformation; Cytotoxicity; Cholesterol metabolism; (Rat astrocyte) (Kupferberg, A. (1013) 231)

25-Hydroxycholesterol
HMG-CoA reductase (Von Gunten, C.F. (1001) 218)

8-Hydroxy-5-deazaflavin:NADPH oxidoreductase
(*S. griseus*) (Eker, A.P.M. (990) 80)

Hydroxyicosatetraenoic acid
Enantiomer; 12-Lipoxygenase; Stimulus-response coupling (Turk, J. (1001) 16)

5-Hydroxyicosatetraenoic acid
Phosphatidylcholine; Cholesterol; 15(*S*)-Hydroxyicosatetraenoic acid; Liposome; Permeability (Isaacson, Y. (986) 295)

Lipoxygenase; Arachidonic acid metabolism; Mollusc; Pelecypoda; (*L. subrostrata*) (Hagar, A.F. (1005) 162)

12-Hydroxyicosatetraenoic acid
Macrophage; Arachidonic acid; (Foam cell) (Mathur, S.N. (1001) 50)

15(*S*)-Hydroxyicosatetraenoic acid
Phosphatidylcholine; Cholesterol; 5-Hydroxyicosatetraenoic acid; Liposome; Permeability (Isaacson, Y. (986) 295)

Hydroxylamine
Oxygen evolution; S state; Greening; Chloroplast (Franck, F. (977) 215)

Reduction; Oxidation; Nitroxide spin label; Tempone, ^{15}N perdeuterated (Chen, K. (992) 131)

Hydroxylase
p-Hydroxybenzoate hydroxylase; Flavoprotein; Oxygenase (Entsch, B. (999) 313)

6α-Hydroxylsterol
5-Desaturation; Sterol mutant; (*C. albicans*) (Shimokawa, O. (1003) 15)

Hydroxylysine glycoside
Collagen; Cyanogen bromide fragment; Fibril diameter; Transparency; (Bovine cornea) (Ibrahim, J. (992) 9)

3-Hydroxy-3-methylglutarate
Succinyl-CoA; Coenzyme A transferase; (Rat-liver mitochondria) (Francesconi, M.A. (999) 163)

Hydroxymethylglutaryl-CoA
Squalene; Cholestyramine; Lanosterol demethylation; Acyl-CoA : cholesterol acyltransferase; (Rat) (Strandberg, T.E. (1001) 150)

β-Hydroxy-β-methylglutaryl-CoA reductase
Active site label; Substrate inactivation; Mevinolin (Dugan, R.E. (998) 91)

Hydroxymethylpyrimidine kinase
Enzyme purification; (*E. coli*) (Mizote, T. (991) 109)

Hydroxyproline
Glomerular epithelial cell; Glomerular mesangial cell; Collagen; Glomerular sclerosis; Proline; (Human glomerulus) (Ardaillou, N. (991) 445)

Hydroxy-D-proline
D-Imino acid uptake; Sodium ion dependence; Electrogenic reaction; D-Proline; Luminal membrane vesicle; Proximal tubule; (Rabbit kidney) (Røigaard-Petersen, H. (984) 231)

***N*-(2-Hydroxypropyl)methacrylamide copolymer**
Monoclonal antibody B3/25; Transferrin; Drug carrier; Targeting (Flanagan, P.A. (993) 83)

19-Hydroxyprostaglandin $F_{2\alpha}$
Cytochrome *P*-450; Seminal fluid; Prostaglandin hydroxylase; Mass spectrometry; (Human) (Oliw, E.H. (1001) 107)

Hydroxysteroid dehydrogenase
Bile acid transformation; Chenodeoxycholic acid; Ursodeoxycholic acid; (*Clostridium* sp.) (Edenharder, R. (1002) 37)

11-Hydroxysteroid dehydrogenase
Renal epithelial cell line; Corticosteroid metabolism; Corticosterone; Adrenal steroid; (Monkey); (Dog); (Pig) (Korbmacher, C. (1010) 311)

5-Hydroxytryptamine release
Synaptosome; Sodium ion depletion; (Rat brain) (Collard, K.J. (984) 319)

Hydroxyurea
Deoxyribonucleoside triphosphate pool; Deoxypyrimidine (Röttgen, V. (992) 349)

25-Hydroxyvitamin D-3 1α-hydroxylase
Castration; Testosterone effect; Isotope dilution-mass spectrometry; (Guinea pig) (Hagenfeldt, Y. (1002) 84)

Hypercholesterolemia
Casein; Apolipoprotein B turnover; Kinetics; (Rabbit) (Khosla, P. (1002) 157)

Cholesteryl linoleyl ether; Phospholipid; (Syrian hamster) (Stein, O. (1006) 144)

Hyperlipidemia
Lipopolysaccharide-low density lipoprotein complex; Phospholipid packing; Toxin inactivation; ESR; NMR, ^{31}P-; Ultracentrifugation; Fluorescence; (Human) (Victorov, A.V. (984) 119)

Cholesterol gallstone; Gallstone; HMG-CoA reductase; Lithogenic index; Enzyme inhibition; (Hamster) (Koide, K. (1005) 65)

Hyperlipoproteinemia
Nephrotic syndrome; Lymph flow rate; Chylomicron synthesis; Triacylglycerol; Intestinal apolipoprotein; (Rat) (Levy, E. (1005) 20)

Hyperlipoproteinemia, type III
Apolipoprotein $E\text{-}1_{Harrisburg}$; Apolipoprotein E variant; (Human) (Mann, W.A. (1005) 239)

Hyperosmolality
Alkaline phosphatase; Sodium butyrate; Enzyme induction; (Cultured colon cancer cell) (Herz, F. (1013) 259)

Hyperosmotic relaxation lysis
Chromaffin granule; Adhesion; Lysis; Intragranular vesicle; Freeze-fracture (Engel, J. (985) 111)

Hyperthermia
Photodynamic effect; Hematoporphyrin derivative; Repair; L929 cells; 2-Aminoisobutyric acid transport; Protein synthesis (Boegheim, J.P.J. (979) 215)

Erythrocyte; Hemolysis; Thermal denaturation; Membrane protein; DSC (Lepock, J.R. (980) 191)

Ornithine decarboxylase; mRNA; Ornithine decarboxylase mRNA; (Ehrlich ascites tumor cell) (Matsui-Yuasa, I. (1014) 225)

***Hyp* mutation**
Phosphate transport kinetics; Brush-border membrane vesicle; Phosphate deprivation; Phosphonoformic acid; (Mouse kidney) (Tenenhouse, H.S. (984) 207)

Hypobetalipoproteinemia
Transcriptional regulation; DNA sequence analysis; Apolipoprotein B deficiency; (Human) (Ross, R.S. (1004) 29)

Hypo-osmolar medium
Electrofusion; Osmotic pressure shock; Sorbitol; Albumin; Divalent cation; Hybrid; (Mammalian cell) (Schmitt, J.J. (983) 42)

Hypothyroidism
VLDL; LDL; HDL; Lipoprotein distribution; (Rat plasma) (Meyer, B.J. (1004) 73)

Hypotriglyceridemia
Fish oil; Linseed oil; Triacylglycerol; $n-3$ fatty acid; (Rat) (Garg, M.L. (1006) 127)

Hypoxia
Iron absorption; Valinomycin; Nigericin; Glucose uptake; (Mouse duodenum) (Raja, K.B. (984) 262)

Carotid body; Catecholamine secretion; Calcium efflux; Voltage sensitive calcium channel; (Rat) (Shaw, K. (1013) 42)

Hypusine
Eukaryotic initiation factor 4D; Polyamine; Deoxyhypusine; Deoxyhypusine hydroxylase; Posttranslational modification; (Eukaryote) (Abbruzzese, A. (997) 248)

I

Ice growth inhibition
Antifreeze peptide; Amino acid sequence; Peptide structure; (*A. brachycephalus*) (Cheng, C.-H.C. (997) 55)

Icosanoid
Glycerolipid metabolism; Dietary fatty acid; Fatty acid; PAF; (Rat kidney) (Yeo, Y.K. (1006) 9)

Icosapentaenoic acid
Coronary heart disease; $(n-3)$ Fatty acid; (Rat enterocyte) (Chernenko, G.A. (1004) 95)

ICP8
DNA binding protein; Herpes simplex virus; ssDNA; Protein ICP8 (Leinbach, S.S. (1008) 281)

IgE binding protein
cDNA sequence; β-Galactoside binding; Lectin; Superfamily; (Human) (Hirabayashi, J. (1008) 85)

Ileal bypass
Lipoprotein catabolism; LDL receptor; Cholesterol; Atherosclerosis; (WHHL rabbit) (Mol, M.J.T.M. (1003) 167)

Ileum
Intestinal transport; Dietary fatty acid; Polyunsaturated fatty acid; Saturated fatty acid; Jejunum; (Rat) (Thomson, A.B.R. (1001) 302)

Intestinal transport; cyclic AMP; Taurocholate; Bile acid absorption; (Rat) (Reymann, A. (1011) 158)

Image analysis
Photosystem I structure; Electron microscopy; (*Synechococcus*) (Boekema, E.J. (974) 81)

Imidazole
Secretin; Secretin structure; Histidine reactivity; Ionization constant (Hefford, M.A. (998) 267)

Imidazole, substituted
Equilibrium constant; Molecular orbital calculation; Free energy perturbation (Worth, G.A. (993) 134)

D-Imino acid uptake
Sodium ion dependence; Electrogenic reaction; D-Proline; Hydroxy-D-proline; Luminal membrane vesicle; Proximal tubule; (Rabbit kidney) (Røigaard-Petersen, H. (984) 231)

Iminodaunomycin
Anthracycline; Photoactivation; Cell photosensitization; Laser (Andreoni, A. (1014) 8)

Immobilization
Phospholipid vesicle; Membrane protein-lipid vesicle; Entrapment; (Human erythrocyte) (Wallstén, M. (982) 47)

Immobilized colchicine
Hydrophobic chromatography; Colchicine; Glyceraldehyde-3-phosphate dehydrogenase (Kocha, T. (991) 56)

Immobilized enzyme
Bilirubin oxidation (Daka, N.J. (991) 487)

Immune complex
Erythrocyte CR1; Binding kinetics; Systemic lupus erythematosus (Meryhew, N.L. (991) 470)

Immunoaffinity chromatography
HDL; Apolipoprotein A-I; Apolipoprotein A-II; Monoclonal antibody; (Human) (James, R.W. (1002) 292)

Immunoaffinity column chromatography
Tissue corticotropin releasing factor; Leydig cell; Paracrine effect; (Testis) (Audhya, T. (995) 10)

Immunoassay
Fatty acid binding protein; α-Fetoprotein; Postnatal development; Lipid metabolism; (Rat tissue) (Paulussen, R.J.A. (1001) 201)

Immunoblot
Phosphatidylinositol; Phosphatidylcholine; Phospholipid transfer protein; (Rat testis) (Thomas, P.J. (982) 24)

Metallothionein; Copper(I) thiolate; Copper increase; Melanoma; ELISA; (Horse) (Krauter, B. (1013) 212)

Immunoblotting
Enamelin; Amelogenin; Cementum; Amino acid composition; (Mouse cementum); (Human cementum) (Slavkin, H.C. (991) 12)

Protein phosphatase; Inhibitor protein; Amino acid sequence; Glucagon; Hepatic metabolism; (Rabbit); (Rat) (MacDougall, L.K. (1010) 218)

Immunochemical analysis
Hydrogenase; Cyanobacterium; (*A. cylindrica*) (Ewart, G.D. (997) 83)

Immunochemical characterization
Glyoxalase II; Mitochondrion; Kinetic constant; (Rat liver) (Talesa, V. (993) 7)

Immunochemistry
Lipoprotein lipase; Triglyceride lipase; Purification; Lipoprotein metabolism; (Human liver) (Ikeda, Y. (1003) 254)

Immunocytochemistry
Thylakoid membrane; Membrane protein topography; Photosystem II; Cytochrome *b*-559; Monoclonal antibody (Vallon, O. (975) 132)

Absorption spectroscopy; Chlorophyll protein; Chloroplast; Electron microscopy; Fluorescence emission; P-700 (Simpson, D.J. (975) 164)

Membrane; Lymphocyte; Freeze-fracture; (Human lymphocyte) (Pavan, A. (978) 158)

Immunocytofluorimetry
LDL receptor; Receptor binding; (Human blood lymphocyte) (Benhamamouch, S. (1002) 45)

Immunodetection
α-Fetoprotein; Fatty acid; Protein conformation; Estrogen binding (Vallette, G. (997) 302)

Immunoelectron microscopy
Glycophorin; CD4; Erythrocyte; Membrane–protein interaction; Flow cytometry (Arvinte, T. (981) 51)

Immunoelectrophoresis
Trimethylamine-*N*-oxide reductase; Enzyme induction; (*E. coli*) (Silvestro, A. (999) 208)

Immunofluorescence
Electrofusion; Electropermeabilization; Cytoskeletal reorganization; Microtubule; (CHO cell) (Blangero, C. (981) 295)

Immunoglobulin
Amyloid immunoglobulin; Amino acid sequence; Amino acid replacement (Ferri, G. (995) 103)

Immunoglobulin G, asymmetric
Glycosylation, asymmetric; (Human serum) (Borel, I.M. (990) 162)

Immunohistochemistry
Glutathione *S*-transferase; (Human liver) (Abei, M. (995) 279)

Immunoinactivation
Colipase; Monoclonal antibody; Antigenic specificity; Pancreas (La Fournière, L. (998) 158)

Immunoliposome
Chloroquine; In vivo model; Drug targeting; Parasitized mouse red blood cell; (Rat) (Peeters, P.A.M. (981) 269)

Acid sensitivity; Endosome; Endocytosis; Diphtheria toxin (Collins, D. (987) 47)

Immunological property
Bromoperoxidase; Vanadium enzyme; Rhodophyta; (*C. pilulifera*) (Krenn, B.E. (998) 63)

Immunomodulator
Benzene; Immunotoxicity; Poly IC; Bone marrow; Interferon (Pandya, K.P. (992) 23)

Immunoreactive thromboxane
2,3-Dinorthromboxane; Thromboxane; Vascular risk factor; (Urine) (Lorenz, R.L. (993) 259)

Immunoreactivity
Cystic fibrosis; Serum activation; Enterokinase; Trypsin; (Human) (Carrère, J. (993) 137)

Immunotoxicity
Benzene; Immunomodulator; Poly IC; Bone marrow; Interferon (Pandya, K.P. (992) 23)

Immunotoxin
Momorcochin-S; Ribosome inactivating protein; RNA *N*-glycosidase (Bolognesi, A. (993) 287)

IMP dehydrogenase
Lymphocyte proliferation; Purine metabolism; Pyrimidine metabolism; CTP synthetase; (Human) (Marijnen, Y.M.T. (1012) 148)

Inactivation
Human interferon-β1; Oligomer; Monomer; Reactivation; Detergent (Utsumi, J. (998) 167)

Indo-1
Calcium ion transport; Platelet aggregation; ATP secretion; (Human blood) (Magócsi, M. (984) 88)

Indoleamine
Tryptophan metabolism; Tumor cell line; Interferon; (Human cell culture) (Werner-Felmayer, G. (1012) 140)

Indolequinone
Melanogenesis; Dihydroxyindole oxidation; Dihydroxyindole radical; Pulse radiolysis (Lambert, C. (993) 12)

Indolylacetic acid oxidation
Enzyme inactivation; Peroxidase; Isoenzyme; Auxin (Acosta, M. (996) 7)

Indophenyl acetate
Acetylcholinesterase; Monoclonal antibody; Ligand; 1-Methyl-2-hydroxyiminomethylpyridinium chloride (Wolfe, A.D. (997) 232)

Induced circular dichroism
Bilirubin; Poly(L-lysine); Dimer/oligomer; Absorption/circular dichroism spectrum; Alpha helix conformation (Bouvier, M. (991) 303)

Infection
Respiratory mucin; Mucin degradation; (Human); (*P. aeruginosa*) (Houdret, N. (992) 96)

Inflammation
Kininogen; Kininogenase; Sex hormone; Radioimmunoassay; Western blot (Chao, S. (991) 477)

Phospholipase A_2; Platelet; Circulation; (Rat) (Murakami, M. (1005) 270)

Infrared
Raman spectroscopy; Phospholipase A_2; Protein conformation (Arêas, E.P.G. (997) 15)

LDL; Apolipoprotein B-100; Protein structure; (Human) (Goormaghtigh, E. (1006) 147)

Infrared ESR
Adrenaline melanin; Dopamine melanin; Melanin-copper complex; Pyrolysis GC-MS; Catecholamine (Stępień, K.B. (997) 49)

Infrared reflection spectroscopy
ATPase, Na^+/K^+-; Attenuated total reflection (Fringeli, U.P. (984) 301)

Infrared spectroscopy
Liver plasma membrane; Ethanol; Membrane order; Interdigitated lipid chain (Lewis, E.N. (986) 161)

Inhibitin
Bumetanide; Ouabain; Promyelocyte; Sodium efflux; (Human erythrocyte) (Morgan, K. (979) 53)

Inhibition
Cytochrome bc_1 complex; Cytochrome b_6f complex; Stigmatellin; Quinol oxidation; (*S. aurantiaca*) (Nitschke, W. (974) 223)

DAHP synthase; D-Erythrose 4-phosphate; D-Ribose 5-phosphate (Tianhui, X. (991) 1)

L-Threonine dehydratase; Aminothiol (Leoncini, R. (994) 52)

Nonesterified fatty acid; Lipid peroxidation; Fatty acid; (Rat microsome) (Balasubramanian, K.A. (1003) 232)

Bile salt dependent lipase; Bile salt; Activation; Kinetics; Boronic acid; (Human) (Abouakil, N. (1004) 215)

Protein synthesis; In vitro translation; mRNA binding; (Mouse erythroleukemia cell) (Bader, M. (1009) 61)

Prothrombin biosynthesis; Warfarin; (Rat) (Tollersrud, O.K. (1010) 35)

Charybdotoxin; Potassium ion efflux; Calcium activated potassium efflux; Sickling-unsickling cycle; (Human sickle red blood cell) (Ohnishi, S.T. (1010) 199)

Phytohemagglutinin; Cholesterogenesis; Cell division; (Human lymphocyte) (Tabacik, C. (1011) 149)

Cell proliferation; Cholera toxin; Kinetics; (Murine leukemia cell) (Pessina, A. (1013) 206)

Inhibitor
Oxidative phosphorylation; Mitochondrial ATPase; Uncoupler; Almitrine; (Yeast) (Rigoulet, M. (975) 325)

Neutrophil; Tyrosine kinase; Protein purification (Berkow, R.L. (997) 292)

Cholinesterase; Acetylcholinesterase; Ligand binding; Enzyme denaturation (Payne, C.S. (999) 46)

Glycogen synthase; Glycogen synthase kinase 3; Protein phosphorylation; Polycation; (Rabbit skeletal muscle) (Hegazy, M.G. (1011) 198)

Inhibitor 1
Protein binding; Protein phosphatase 1 (Ingebritsen, V.M. (1012) 1)

Plasminogen activator; intracellular cyclic AMP; Endothelial secretion; Signal transduction; (Human umbilical cord cell) (Francis, Jr, R.B. (1012) 207)

α_1-Inhibitor 3
α_2-Macroglobulin; α_2-Macroglobulin receptor; Liver membrane; (Rat) (Gliemann, J. (980) 326)

Inhibitor binding site
Band 3 protein; cRNA expression; Oligonucleotide-directed mutagenesis; (*Xenopus* oocyte) (Bartel, D. (985) 355)

Inhibitor protein
Protein phosphatase; Amino acid sequence; Glucagon; Immunoblotting; Hepatic metabolism; (Rabbit); (Rat) (MacDougall, L.K. (1010) 218)

Inhibitor protein, IF_1
ATPase, F_1-; Cooperativity; Azide inhibition; Unisite catalysis (Harris, D.A. (974) 156)

Inhibitor resistant respiration
Oxygen consumption; Cytochrome; Azide; (Frog); (Skate) (Kidder III, G.W. (973) 59)

Inhibitor sensitivity
Monoamine oxidase; Granulocyte; Lymphocyte; Kinetic constant; Pargyline binding; (Human) (Dolors Balsa, M. (992) 140)

Inhibitory site
ATPase, F_1-; ADP binding, high affinity; Nucleotide binding; (Bovine heart mitochondria) (Milgrom, Y.M. (975) 50)

ATPase, F_1-; Amphiphilic peptide; Cationic dye (Bullough, D.A. (975) 377)

Initiation factor 2
Protein synthesis; Guanine nucleotide exchange; Protein phosphorylation; (*Artemia*) (Mateu, M.G. (1007) 55)

Protein phosphorylation; (Rabbit reticulocyte lysate) (Price, N.T. (1008) 177)

Casein kinase-2; Protein phosphorylation; Protein synthesis (Clark, S.J. (1010) 377)

Inner membrane permeability
Duramycin; Mitochondrion; Volume change; Adenine nucleotide translocator; (Rat heart) (Sokolove, P.M. (983) 15)

Innervation
Calcium regulation; Muscle disease; Duchenne muscular dystrophy; Becker muscular dystrophy (Martonosi, A. (991) 155)

Inorganic mercury
Mercury; Elemental mercury; Blood; Exhalation; (Lung) (Magos, L. (991) 85)

Inorganic pyrophosphatase
Pyrophosphate; Mitochondrial metabolism (Mansurova, S.E. (977) 237)

Inorganic salt
Structure–function relation; α-Chymotrypsin (Przybycien, T.M. (995) 231)

Inositol
Myogenesis; polyphosphatidylinositol; Cell–cell recognition; Differentiation; Lithium ion (Hausman, R.E. (1013) 92)

Inositol 3,4-bisphosphate
Inositol 1-phosphatase kinetics; Kinetics; NMR; Inositol phosphate metabolism; Inositol 1,3,4-trisphosphate; Inositol 1,3,4,5-tetrakisphosphate (Hansen, C.A. (1001) 134)

Inositol cycle
Neuroblastoma; Neuroblastoma × glioma hybrid; Glioma; Polyphosphoinositide; Cell culture (Glanville, N.T. (1004) 169)

Inositol lipid metabolism
Calcium ion, intracellular; Cholinergic receptor; Verapamil; Phorbol ester; (Bovine anterior pituitary cell) (Wood, C.A. (1013) 180)

Inositol 1-phosphatase kinetics
Kinetics; NMR; Inositol phosphate metabolism; Inositol 1,3,4-trisphosphate; Inositol 3,4-bisphosphate; Inositol 1,3,4,5-tetrakisphosphate (Hansen, C.A. (1001) 134)

Inositol phosphate
Glycoprotein; GP IIb-IIIa; Platelet activation; cyclic AMP; Protein phosphorylation; Fibrinogen (Sinigaglia, F. (984) 225)

1,2-Diacylglycerol; Compensatory renal growth; Extracellular calcium ion; (Rat) (Banfić, H. (1002) 273)

Leukemia cell; Streptolysin O; Inositol phospholipid turnover; Antigen stimulation; GTPγS; (Permeabilized RBL-2H3 cell) (Ali, H. (1010) 88)

Mechanical stress; cyclic AMP; (Mouse osteoblast) (Sandy, J.R. (1010) 265)

Mass spectrometry; NMR (Palmer, S. (1014) 239)

Gastrin; CCK-8; Cholecystokinin; (Gastric parietal cell) (Roche, S. (1014) 313)

Inositol phosphate metabolism
Inositol 1-phosphatase kinetics; Kinetics; NMR; Inositol 1,3,4-trisphosphate; Inositol 3,4-bisphosphate; Inositol 1,3,4,5-tetrakisphosphate (Hansen, C.A. (1001) 134)

Inositol phosphate production
Diacylglycerol lipase; RHC 80267; (Rat gastric parietal cell) (Pfeiffer, A. (1001) 191)

Inositol phospholipid
Lymphocyte, B; G protein; Transmembrane signalling; Surface immunoglobulin; Phospholipase C (Monroe, J.G. (1013) 273)

Inositol phospholipid turnover
Leukemia cell; Streptolysin O; Inositol phosphate; Antigen stimulation; GTPγS; (Permeabilized RBL-2H3 cell) (Ali, H. (1010) 88)

Inositol polyphosphate
Carbamoylcholine; Cardiac myocyte; (Rat) (Berg, I. (1010) 100)

Cholinergic stimulation; Carbachol; Ion transport; (Human sweat duct cell) (Doughney, C. (1010) 352)

Fish oil; LDL; Angiotensin II; Thromboxane A_2; Vascular smooth muscle cell (Locher, R. (1012) 279)

cyclic AMP; Phorbol ester; Calcium ion activity, intracellular; Phosphate transport; (Opossum kidney cell) (Quamme, G. (1013) 166)

Inositol 1,3,4,5-tetrakisphosphate
Inositol 1-phosphatase kinetics; Kinetics; NMR; Inositol phosphate metabolism; Inositol 1,3,4-trisphosphate; Inositol 3,4-bisphosphate (Hansen, C.A. (1001) 134)

Inositol trisphosphate
Calcium ion release; Arachidonic acid; Fura-2; Platelet membrane; (Human) (Tohmatsu, T. (1012) 97)

Inositol 1,3,4-trisphosphate
Inositol 1-phosphatase kinetics; Kinetics; NMR; Inositol phosphate metabolism; Inositol 3,4-bisphosphate; Inositol 1,3,4,5-tetrakisphosphate (Hansen, C.A. (1001) 134)

Inositol 1,4,5-trisphosphate
cyclic AMP; 1,2-Diacylglycerol; Phorbol ester; Phosphate transport; (Opossum kidney cell) (Quamme, G. (1013) 159)

cyclic AMP; Calcium ion release; Saponin; Platelet; (Human) (Tohmatsu, T. (1013) 190)

Calcium ion; Aging (Maki, T. (1014) 73)

Insecticide–membrane interaction
Lindane; Fluorescence polarization; Fluorescence probe; Membrane fluidity; Cholesterol (Antunes-Madeira, M.C. (982) 161)

In situ perfusion
HDL; Lipoprotein uptake; (Rat) (Azhar, S. (1004) 61)

Insulin
Protein, 165 kDa; Phosphotyrosine; Kinase; Insulin receptor; Phosphorylation; (Rat) (Del Vecchio, R.L. (986) 41)

Amino acid sequence; Marsupial; (Kangaroo) (Treacy, G.B. (990) 263)

Malic enzyme; Transcription; mRNA; Nutrient: (Rat) (Katsurada, A. (1004) 103)

Transcriptional control; Glucose-6-phosphate dehydrogenase; cDNA; (Rat liver) (Katsurada, A. (1006) 104)

Fetus; Insulin receptor; (Rat liver) (Gruppuso, P.A. (1010) 270)

Phosphoinositide; Adipocyte; Adenosine; Oxytocin; Catecholamine (Lee, H.-M. (1013) 73)

Adipsin; 3T3-L1 adipocyte (Kitagawa, K. (1014) 83)

Protein p68; Growth factor; Protein kinase C; Macrophage colony stimulating factor; Platelet derived growth factor; (Placental syncytiotrophoblast) (Kenton, P. (1014) 271)

Insulin-like effect
Histone; Adipocyte; Glucose incorporation; Glucose phosphorylation; (Rat) (McCroskey, M.C. (1011) 212)

Insulin-like growth factor
HPLC; Isolation; Amino acid sequence; (Sheep) (Hey, A.W. (997) 27)

Insulin-like growth factor 1
Insulin-like growth factor 2; Somatomedin; Receptor; Binding protein (Carlsson-Skwirut, C. (1011) 192)

Insulin-like growth factor 2
Insulin-like growth factor 1; Somatomedin; Receptor; Binding protein (Carlsson-Skwirut, C. (1011) 192)

Insulin-like growth factor I
Phospholipid synthesis; Cycloheximide; (Rat kidney) (Crljen, V. (1012) 24)

Hyaluronic acid; Pericardium; Hyaluronic acid synthesis; (Rabbit) (Honda, A. (1014) 305)

Insulin-like growth factor II gene
Polyadenylation site; (Rat cDNA) (Ueno, T. (1009) 27)

Insulinoma peptide
C peptide; Radioimmunoassay; (Rat) (Al-Ahkras, G. (993) 275)

Insulin processing
Insulin receptor; Insulin resistance; Plasma membrane; (Rat adipocyte) (Fernig, D.G. (1010) 237)

Phenylarsine oxide; Monensin; Glucose transport; Signal transduction; (Rat adipocyte) (Douen, A.G. (1010) 363)

Insulin receptor
Protein, 165 kDa; Insulin; Phosphotyrosine; Kinase; Phosphorylation; (Rat) (Del Vecchio, R.L. (986) 41)

Protein tyrosine kinase (Srivastava, A.K. (996) 13)

Insulin processing; Insulin resistance; Plasma membrane; (Rat adipocyte) (Fernig, D.G. (1010) 237)

Fetus; Insulin; (Rat liver) (Gruppuso, P.A. (1010) 270)

Insulin release
Pancreatic islet; Priming; Calcium ion; (Rat) (Chalmers, J.A. (1011) 46)

Insulin resistance
Insulin receptor; Insulin processing; Plasma membrane; (Rat adipocyte) (Fernig, D.G. (1010) 237)

Insulin secretion
Nutrient stimulus; pH, cytosolic; Sodium ion–proton exchange; (Human insulinoma cells, HIT) (Lynch, A.M. (1012) 166)

Intensity
Rose Bengal; Wavelength; Photosensitization; Red blood cell; Acetylcholinesterase (Fluhler, E.N. (990) 269)

Interaction
Metastasis; Glycosaminoglycan; Internalization; Receptor; Cell culture (Redini, F. (991) 359)

Sulfhydryl; Sorbitol dehydrogenase; Nonpolar; *N*-Alkylmaleimide (Beier, K.H. (997) 236)

Intercalation
Caffeine; DNA unwinding; DNA–drug interaction (Tornaletti, S. (1007) 112)

Interdigitated bilayer
Spin label; Lipid bilayer (Boggs, J.M. (981) 243)

Phospholipid bilayer; Phase transition; Potassium thiocyanate; Acyl chain (Cunningham, B.A. (984) 109)

Interdigitated lipid chain
Infrared spectroscopy; Liver plasma membrane; Ethanol; Membrane order (Lewis, E.N. (986) 161)

Interdigitated phase
Lipid phase diagram; Phosphatidylcholine; Cerebroside; Sulfatide; Calorimetry (Gardam, M. (980) 319)

Interdigitation
Spin label; Lipid bilayer; Phase transition; Polymyxin B; Polymyxin B nonapeptide (Wang, H.-Y. (985) 182)

Spin label; Lipid bilayer; Phase transition; Acidic lipid; Polymyxin B; Polymyxin B nonapeptide (Boggs, J.M. (985) 199)

Cerebroside sulfate; X-ray diffraction; Lipid bilayer; Phase behavior (Stinson, R.H. (986) 234)

Interface
Anesthesia theory; Vesicle membrane; Two-dimensional nuclear Overhauser effect; Nuclear Overhauser difference spectroscopy; Hydrophyl–hydrophobe balance (Yokono, S. (982) 300)

Anesthesia theory; Surface capacitance; Phospholipid vesicle; Phase transition (Yoshida, T. (984) 253)

Interface active molecule
Lipid bilayer; Phase transition; Cholesterol; Density fluctuation; Heterogeneity; Lateral compressibility (Cruzeiro-Hansson, L. (979) 166)

Interfacial activation
Phase separation; Bilayer; Annealing; Phospholipase A_2; Lipid–protein interaction; Interfacial catalysis (Jain, M.K. (980) 23)

Interfacial catalysis
Phase separation; Bilayer; Annealing; Phospholipase A_2; Lipid–protein interaction; Interfacial activation (Jain, M.K. (980) 23)

Phospholipase A_2; Enzyme kinetics (Jain, M.K. (1002) 127)

Phospholipase A_2; Substrate specificity; Nonspecific inhibitor; Bilayer; Membrane fluidity (Jain, M.K. (1003) 91)

Interferon
Poly(rI)·poly(rC); Antiviral chemotherapy; Liposome; Monoclonal antibody; Drug targeting (Milhaud, P.G. (987) 15)

Benzene; Immunotoxicity; Immunomodulator; Poly IC; Bone marrow (Pandya, K.P. (992) 23)

Tryptophan metabolism; Tumor cell line; Indoleamine; (Human cell culture) (Werner-Felmayer, G. (1012) 140)

Microtubule assembly; (Human) (Ward, L.D. (1012) 317)

Interferon γ
Interleukin 1; Cartilage degradation; Proteinase; DNA synthesis; (Human chrondrocyte) (Andrews, H.J. (1012) 128)

Interleukin 1
Proteoglycan size distribution; Sedimentation field flow fractionation; Proteoglycan metabolism (Arner, E.C. (993) 100)

Cachectin/tumor necrosis factor; Lipoprotein lipase; Synergism; (Mouse 3T3-L1 adipocyte) (Ogawa, H. (1003) 131)

Lymphokine; Gene expression; Glycosylation; Amino terminal protein sequence; (Monkey kidney cells); (Murine interleukin gene) (Ramanathan, L. (1007) 283)

Epstein-Barr virus; Transformed B cell; Bone metabolism; Cell proliferation; (Human blood cell) (Hanazawa, S. (1012) 57)

Interferon γ; Cartilage degradation; Proteinase; DNA synthesis; (Human chrondrocyte) (Andrews, H.J. (1012) 128)

Interleukin-1α
Gene expression; Synthetic gene; (Mouse); (*E. coli*) (Daumy, G.O. (998) 32)

Interleukin 2
Cadmium; T cell activation; Protein kinase C; Phosphatidylinositol hydrolysis; (Human) (Cifone, M.G. (1011) 25)

T lymphocyte; Phytohemagglutinin; Phosphoinositide turnover; Cell proliferation; (Human) (Korichneva, I.L. (1014) 173)

Intermediate electron acceptor
Photosystem II; Cytochrome *b*-559 D_1D_2 complex; Pheophytin; ENDOR (Lubitz, W. (977) 227)

Intermolecular interaction
Chlorophyll *a*; Resonance Raman; Hydrogen bonding; Spectroscopy; Photosynthesis (Krawczyk, S. (976) 140)

Internalization
Metastasis; Glycosaminoglycan; Interaction; Receptor; Cell culture (Redini, F. (991) 359)

Internal volume
Lipid vesicle; Dynamic light scattering (Kojro, Z. (985) 1)

Inter-α-trypsin inhibitor
Proteinase inhibitor; Pancreatic elastase; PMN-granulocytic elastase (Rasp, G. (999) 335)

Intervertebral disc
Neutral proteinase; Proteoglycan; Proteoglycan degradation; (Dog) (Cole, T.-C. (990) 254)

Intervesicular exchange
Lipid exchange; pH gradient (Eastman, S.J. (981) 178)

Intestinal apolipoprotein
Nephrotic syndrome; Hyperlipoproteinemia; Lymph flow rate; Chylomicron synthesis; Triacylglycerol; (Rat) (Levy, E. (1005) 20)

Intestinal lipoprotein
Golgi apparatus; Chylomicron formation; Endoplasmic reticulum; VLDL (Nutting, D. (1004) 357)

Intestinal secretion
Enterotoxin; Cytotoxin; (*C. difficile*) (Torres, J.F. (998) 151)

Intestinal transport
Brush-border membrane; Sodium ion cotransport; Alanine transport; Proline transport; (*A. anguilla*) (Vilella, S. (984) 188)

Dietary fatty acid; Polyunsaturated fatty acid; Saturated fatty acid; Ileum; Jejunum; (Rat) (Thomson, A.B.R. (1001) 302)

Ileum; cyclic AMP; Taurocholate; Bile acid absorption; (Rat) (Reymann, A. (1011) 158)

Intestine
Collagen synthesis; In vitro; Tissue explant; Aging; (Rat) (Martens, M.F.W.C. (993) 252)

Intracellular buffering
pH, cytoplasmic; pH regulation; Proton pump; Membrane permeability; (*D. discoideum*) (Inouye, K. (1012) 64)

Intracellular calcium
Magnesium deficiency; Cellular membrane phospholipid; Phospholipid *N*-methyltransferase; Calcium uptake; (LLC-PK cell) (Mahfouz, M.M. (1006) 75)

Intracellular calcium regulation
Sodium–calcium ion exchange; Transverse tubule; (Frog skeletal muscle) (Donoso, P. (978) 8)

Intracellular degradation
Bleomycin hydrolase; Intrinsic resistance; Enzyme distribution; Monoclonal antibody; (Chinese hamster cell line) (Nishimura, C. (1012) 29)

Intracellular stability
Liposome; Cholesterol; Gamma-ray perturbed angular correlation spectroscopy; PACS; (Kupffer cell) (Roerdink, F.H. (980) 234)

Intracellular transport
Niemann-Pick type C fibroblast; Cholesterol oxidase; Sphingomyelinase; LDL; Cholesterol esterification (Slotte, J.P. (1005) 303)

Intracytoplasmic membrane
Lipopolysaccharide; Membrane biogenesis; Protein export; *secA* gene; (*E. coli*) (De Cock, H. (985) 313)

Intragranular vesicle
Chromaffin granule; Adhesion; Lysis; Hyperosmotic relaxation lysis; Freeze-fracture (Engel, J. (985) 111)

Intralipid
Lecithin:cholesterol acyltransferase; Lipolysis; Heparin (Amr, S. (1001) 145)

Intramolecular disulfide bond
Glycolipid transfer protein; Sulfhydryl group; Disulfide bond; Oligomerization; Cupric ion; (Pig brain) (Abe, A. (985) 38)

Glycolipid transfer protein; Disulfide bond; Sulfhydryl group (Abe, A. (985) 45)

Intramolecular reaction
Hemoglobin; Spin transition; ESR; Temperature jump; Protein dynamics (Steinhoff, H.-J. (996) 49)

Intravenous infusion
Polyunsaturated phospholipid; Phosphatidylcholine; Dimethylethanolamine; (Rat) (Alvaro, D. (1006) 116)

Intrinsic factor
Intrinsic factor receptor; Cobalamin; Protein purification; (Human); (Pig ileum) (Guéant, J.L. (992) 281)

Intrinsic factor receptor
Intrinsic factor; Cobalamin; Protein purification; (Human); (Pig ileum) (Guéant, J.L. (992) 281)

Intrinsic fluorescence
Antibody–hapten interaction; Phosphorylcholine; Fluorescence quenching; Derivative spectroscopy; Monoclonal antibody (Urbaneja, M.-A. (998) 85)

Intrinsic resistance
Bleomycin hydrolase; Intracellular degradation; Enzyme distribution; Monoclonal antibody; (Chinese hamster cell line) (Nishimura, C. (1012) 29)

Invertebrate
Hemolysin; Sphingomyelin; Complement; Polymerization; Membrane lesion; (Sheep erythrocyte); (Earthworm) (Roch, P. (983) 193)

Inverted hexagonal phase
Lipid phase transition; Cryoprotectant; Hofmeister effect; Phosphatidylethanolamine; Hexagonal H_{II} phase (Koynova, R.D. (980) 377)

In vitro
Collagen synthesis; Tissue explant; Intestine; Aging; (Rat) (Martens, M.F.W.C. (993) 252)

In vitro fertilization
Fertilization; Single cell rotation; Microvilli; Membrane capacity; Membrane resistivity; Electrorotation; (Zona pellucida) (Arnold, W.M. (979) 142)

In vitro replication
Mutagenesis; SOS response; DNA; Ultraviolet irradiation; (*E. coli*); (ColE1 plasmid) (Casaregola, S. (1008) 45)

In vitro translation
Glycerol-3-phosphate dehydrogenase; Mitochondrial processing; Thyroid hormone; Protein transport (Clay, V.J. (975) 112)

Protein synthesis; mRNA binding; Inhibition; (Mouse erythroleukemia cell) (Bader, M. (1009) 61)

Egg-specific protein; Protein processing; (*B. mori* egg) (Kobayashi, M. (1009) 129)

Pulmonary surfactant; Posttranslational processing; (Human adenocarcinoma cell line) (O'Reilly, M.A. (1011) 140)

In vivo model
Immunoliposome; Chloroquine; Drug targeting; Parasitized mouse red blood cell; (Rat) (Peeters, P.A.M. (981) 269)

Iodide
Peroxidation; Peroxidase; EDTA (Banerjee, R.K. (992) 393)

Iodoacetate
Erythrocyte; Passive cation transport; Permeability, sodium/potassium ion; Ferricyanide; *p*-Chloromercuribenzenesulfonate; Ionophore A23187; (Human) (Fuhrmann, G.F. (983) 179)

Ion binding
ATPase, Na^+/K^+-; Enzyme conformation; Antibody binding site; Conformational transition (Friedman, M.L. (995) 42)

Ion-bleomycin complex
Bleomycin; Mössbauer; ESR; NMR (Levy, A. (991) 97)

Ion channel
Gramicidin A; Radiolysis; Photolysis; Lipid membrane (Strässle, M. (980) 305)

Des(ethanolamine)-taurine^{16}-gramicidin A; Gramicidin A, [Tau^{16}]-; Single-channel conductance; Planar membrane (Roeske, R.W. (982) 223)

Hemolysin; Single-channel current; Current-voltage characteristic; Phospholipid bilayer; Selectivity; pH dependence; (*E. coli*) (Ropele, M. (985) 9)

Membrane; Diffusion; Electrophoresis; Neuromuscular junction; Morphogenesis (Fromherz, P. (986) 341)

Ion channel formation
PAF; Membrane perturbation (Sawyer, D.B. (987) 129)

Ion conductance
Membrane potential; Microelectrode technique; Amphotericin B; (*R. catesbeiana* cornea) (Carrasquer, G. (982) 73)

Ion dependence
Odorant; Olfactory response; Liposome; Membrane potential (Nomura, T. (1005) 260)

Ion exchange chromatography
Mucin; Colon cancer; Glycoprotein (Shimamoto, C. (991) 284)

Ion-exchange HPLC
Chlorophyll-protein complex; CP29; Light harvesting; Amino acid sequence, partial; Photosystem II; (Spinach) (Henrysson, T. (977) 301)

Ion exchanger
Membrane potential; Sodium chloride symport; Chloride conductance; (*R. pipiens* stomach) (Holloman, T.L. (980) 367)

Ion flux
ATPase, Na^+/K^+-; Reconstituted lipid vesicle; Pump current; Coupling ratio (Clarke, R.J. (981) 326)

Ionic channel
Epidermal growth factor; Patch clamp; Calcium signal; (Human carcinoma cell) (Mozhayeva, G.N. (1011) 171)

Ionic conductance
Potassium ion secretory epithelium; Chloride channel blocker; Micro-Ussing chamber; (Inner ear) (Marcus, D.C. (987) 56)

Ionic effect
ATPase, Mg^{2+}-; Vanadate inhibition; Electrostatic interaction; (Corn root plasmalemma) (Gibrat, R. (979) 46)

Ionic strength
Osmometry; Cytochrome oxidase; Enzyme latency; Energy coupling; Mitochondrial inner membrane; (Rat liver mitochondria) (Sitaramam, V. (975) 252)

Erythrocyte shape; Membrane; ATP; Zwitterion; (Human) (Raval, P.J. (983) 230)

Ionic strength dependence
Anion radical; Electric charge distribution; Reaction rate; Flash photolysis (Egawa, T. (995) 207)

Ionization constant
Secretin; Secretin structure; Imidazole; Histidine reactivity (Hefford, M.A. (998) 267)

Ion leak
Energy transducing membrane; Permeability coefficient; Non-ohmic behavior; Electrical gradient; Flux voltage equation (Garlid, K.D. (976) 109)

Ionomycin
Mitogenesis; Hormone receptor; Calcium ion; Calcium ionophore; Lymphocyte activation; Calmodulin (Jy, W. (983) 153)

Ionophore
Ion transport; Phospholipid bilayer; Antibiotic M139603; NMR, ^{23}Na-; NMR, ^{39}K-; NMR, ^{7}Li- (Riddell, F.G. (984) 6)

Platelet aggregation; Sodium ion, intracellular; Calcium ion mobilization; pH, intracellular; (Bovine blood) (Kitagawa, S. (1011) 117)

Ionophore A23187
Erythrocyte; Passive cation transport; Permeability, sodium/potassium ion; Ferricyanide; Iodoacetate; *p*-Chloromercuribenzenesulfonate; (Human) (Fuhrmann, G.F. (983) 179)

Endotoxin; Phospholipid pool; Arachidonic acid turnover (Rogers, T.S. (1001) 169)

Arachidonic acid release; Basophilic leukemia cell (Froissart, P. (1002) 376)

Lipoprotein lipase; Enzyme activity; Calcium; Thrombin; (Rat adipocyte) (Soma, M.R. (1003) 307)

Prostacyclin; Arachidonic acid; (Rat alveolar epithelial cell); (Rat fibroblast) (Olson, D.M. (1003) 327)

Lipoxin; RBL-1 cell; fMet-Leu-Phe; Phorbol myristate acetate; 5-Lipoxygenase; 15-Lipoxygenase; (Rat) (Ng, C.F. (1004) 332)

Angiotensin converting enzyme; Calcium ion dependence; Protein synthesis; (Bovine endothelial cell) (Dasarathy, Y. (1010) 16)

Ion selectivity
Porin; PhoE; Hybrid protein; Charged group; Lipid bilayer; (*E. coli* K-12 membrane) (Benz, R. (981) 8)

Porin; Mitochondrion; Lipid bilayer; Reconstitution; VDAC; (*D. melanogaster*) (De Pinto, V. (987) 1)

Ion transport
Phospholipid bilayer; Antibiotic M139603; Ionophore; NMR, ^{23}Na-; NMR, ^{39}K-; NMR, ^{7}Li- (Riddell, F.G. (984) 6)

Inositol polyphosphate; Cholinergic stimulation; Carbachol; (Human sweat duct cell) (Doughney, C. (1010) 352)

NMR, ^{23}Na-; NMR, ^{31}P-; Bacterial membrane; Monensin; (*S. faecalis*) (Delort, A.-M. (1013) 11)

Calcium ion homeostasis; Cell injury; Iron concentration; Lipid peroxidation; (Rat liver mitochondria) (Masini, A. (1014) 133)

Iron
Ovotransferrin; Metal binding site; Copper displacement (Xian-Xuan, C. (992) 160)

Glutathione; γ-Glutamylcysteine synthetase; Cysteine; Oxidative injury; (Mouse) (Ogino, T. (1006) 131)

Copper; Ascorbate; Oxidative damage; Hemolytic anemia; Thalassemia; (Human red blood cell) (Shinar, E. (1014) 66)

Iron absorption
Hypoxia; Valinomycin; Nigericin; Glucose uptake; (Mouse duodenum) (Raja, K.B. (984) 262)

Iron binding protein
Phospholipid hydroperoxide; Lipid peroxidation; Phosphatidylethanolamine; Hydroperoxide decomposition; (Human blood plasma) (Terao, J. (1003) 221)

Iron chelator
Ferritin; Apotransferrin; Chloroquine; (Rat hepatocyte) (Sibille, J.-C. (1010) 204)

Desferrioxamine; Liposome; Tumor cell; Erythroid differentiation; (Mouse) (Nastruzzi, C. (1013) 36)

Iron concentration
Calcium ion homeostasis; Cell injury; Lipid peroxidation; Ion transport; (Rat liver mitochondria) (Masini, A. (1014) 133)

Iron core
Hemosiderin; Polypeptide shell; (Hemochromatosis) (Ward, R.J. (993) 131)

Iron localization
Heme synthesis inhibition; Iron metabolism; (Rat reticulocyte) (Adams, M.L. (1012) 243)

Iron metabolism
Ferritin; Ferritin receptor; (Rat hepatocyte) (Osterloh, K. (1011) 40)

Heme synthesis inhibition; Iron localization; (Rat reticulocyte) (Adams, M.L. (1012) 243)

Iron overload
Ethane; Lipid peroxidation; Glutathione; L-Buthionine (*S*,*R*)-sulfoximine; (Mouse) (Kawabata, T. (1004) 89)

Iron protein
Activating enzyme; Nitrogenase; Nitrogen fixation; (*A. brasilense*) (Ljungström, E. (994) 210)

Iron release
Transferrin; Platelet; Adenine nucleotide; (Human) (Brieland, J.K. (978) 191)

Iron removal
Ferritin; DL-Dihydrolipoate (Bonomi, F. (994) 180)

Iron semiquinone
Photosystem II; Electron acceptor; Bacterial photosynthesis; (*P. laminosum*) (Hubbard, J.A.M. (977) 91)

Iron-sulfur center
Photosystem I; Reaction center; Core protein; P-700; Chaotropic agent; (*Synechococcus* PCC 6301); (*A. nidulans*) (Parrett, K.G. (973) 324)

Iron-sulfur cluster
Cytochrome bc_1; Rieske protein; Nitrogen ligand; (Bovine heart) (Powers, L. (975) 293)

Cytochrome c_3; Ferredoxin I cross-linking; ESR; Electron transfer, intramolecular; Redox potential (Dolla, A. (975) 395)

Ferredoxin; ESR; CD; Protein structure; Urea denaturation; (Spinach) (Ohmori, D. (996) 166)

Ferredoxin; CD; Protein structure; Urea denaturation; (Spinach) (Hasumi, H. (996) 173)

Iron transport
Transferrin receptor; Ferritin; (Murine mammary gland) (Schulman, H.M. (1010) 1)

Irradiation
β-Glucosidase; Gaucher disease; Lysosome; Subunit coupling; Radiation inactivation; Triton X-100 (Maret, A. (996) 254)

Ischemia
Neutrophil; Myocardial injury; Oxygen radical; Myeloperoxidase (Kukreja, R.C. (990) 198)

Isocitrate dehydrogenase
Enzyme purification; Thermophile; (*Thermus*) (Eguchi, H. (990) 133)

Isoelectric focusing
Chlorophyll protein; LHC II heterogeneity; Light harvesting; Photosystem II (Spangfort, M. (977) 163)

Bacteriorhodopsin; Papain proteolysis; Isoelectric form; Molecular weight form; (*H. halobium*) (Ross, P.E. (991) 134)

Autoantibody; Binding protein; Cobalamin; Transcobalamin (Hansen, M. (992) 209)

Protein structure; Protein folding; Protein aggregation (Van den Oetelaar, P.J.M. (995) 82)

α-Crystallin; Protein structure; Protein folding; Protein aggregation; (Calf lens) (Van den Oetelaar, P.J.M. (995) 91)

α_1-Antichymotrypsin; Microheterogeneity; Amino terminal amino acid sequence; Serpin (Lindmark, B. (997) 90)

Deoxyribonuclease; Isozyme; Subunit structure; (Spleen lysosome); (Liver lysosome) (Liao, T.-H. (1007) 15)

Isoelectric form
Bacteriorhodopsin; Papain proteolysis; Isoelectric focusing; Molecular weight form; (*H. halobium*) (Ross, P.E. (991) 134)

Isoelectric point
Carbohydrate structure; Sialic acid; Transferrin; (Human) (Petrén, S. (994) 161)

Isoenzyme
Enzyme inactivation; Peroxidase; Indolylacetic acid oxidation; Auxin (Acosta, M. (996) 7)

Cholinesterase; Albumin-enzyme conjugate; (Human) (Masson, P. (998) 258)

Isolation
Insulin-like growth factor; HPLC; Amino acid sequence; (Sheep) (Hey, A.W. (997) 27)

L-Isoleucine
Transamination; Oxidative decarboxylation; L-Alloisoleucine; (Rat muscle) (Schadewaldt, P. (992) 115)

Isopenicillin N epimerase
Substrate specificity (Usui, S. (999) 78)

Isoproterenol
Opioid receptor; Sarcolemma; Phenylephrine (Ventura, C. (987) 69)

Proliferation; Phosphatidylcholine; Fatty acid composition; Lysophospholipid acyltransferase; Phospholipid metabolism; (Rat submandibular gland) (Yashiro, K. (1005) 56)

cyclic AMP; Junctional conductance; Heart protein kinase (De Mello, W.C. (1012) 291)

PAF; Sodium ion/calcium ion exchange; Platelet aggregation (Kester, M. (1014) 195)

Isopycnic sedimentation
Chitin synthetase; Sedimentation property; Chitosome; (*N. crassa*) (Martínez, J.P. (990) 45)

Isoschizomer
Restriction endonuclease; Enzyme purification; Acidophilic bacterium; (*A. facilis*) (Dou, D. (1009) 83)

Isotope dilution-mass spectrometry
25-Hydroxyvitamin D-3 1α-hydroxylase; Castration; Testosterone effect; (Guinea pig) (Hagenfeldt, Y. (1002) 84)

Isotopic discrimination
Phosphoglucoisomerase; Diastereotopic specificity (Liemans, V. (998) 111)

Isozyme
Lactate dehydrogenase; Enzyme–lipid interaction (Dąbrowska, A. (980) 357)

Dynein; ATPase activity; GTPase activity; (Sea urchin egg) (Rose, P.M. (990) 31)

Glutathione *S*-transferase; (Kidney); (Human) (Hiley, C. (990) 321)

Phosphofructokinase; Phosphorylation; cyclic AMP dependent kinase (Valaitis, A.P. (995) 187)

Deoxyribonuclease; Subunit structure; Isoelectric focusing; (Spleen lysosome); (Liver lysosome) (Liao, T.-H. (1007) 15)

Isozyme gene
recombinant DNA; Expression plasmid; Class I; Aldolase; Glycolytic pathway; Aldolase gene; (Human gene); (*E. coli* host) (Sakakibara, M. (1007) 334)

Isozyme heterogeneity
Coupling factor; Epsilon subunit; Dithiothreitol; (Spinach); (*C. reinhardtii*) (Duhe, R.J. (974) 294)

Isozyme structure
CTP : choline-phosphate cytidylyltransferase; Cytidylyltransferase; Phosphatidylcholine synthesis; Enzyme aggregate (Weinhold, P.A. (1006) 299)

Ito cell
Retinol; Retinoic acid; Myofibroblast; Lipid metabolism; (Mouse liver cell) (Margis, R. (1011) 1)

Iturin
Lipid; Lipopeptide; Antifungal; Mixed monolayer (Maget-Dana, R. (981) 309)

J

Jaundice
Bilirubin; Albumin; Anion transport; Hepato-renal syndrome; Protein binding; (Rat) (Sugi, K. (987) 217)

Jejunum
Chloride conductance; Conductance inhibitor; Brush-border vesicle; (Pig) (Forsyth, G.W. (977) 19)

Intestinal transport; Dietary fatty acid; Polyunsaturated fatty acid; Saturated fatty acid; Ileum; (Rat) (Thomson, A.B.R. (1001) 302)

J774 macrophage
Sphingomyelin; Ceramide; Glucoceramide; Hep G_2 cell; Peritoneal macrophage; (Rat liver) (Stein, O. (1003) 175)

LDL; Cholesterol esterification; Acyl-CoA : cholesterol acyltransferase (Khoo, J.C. (1012) 215)

Junctional conductance
cyclic AMP; Heart protein kinase; Isoproterenol (De Mello, W.C. (1012) 291)

K

Kallikrein
Endocytosis; Receptor; (Rat liver) (Kouyoumdjian, M. (980) 299)

Amino terminal sequence; Cleavage preference; Radioimmunoassay; Affinity labeled tracer; (Rat plasma) (Paquin, J. (999) 103)

Karyophilic protein
AP endonuclease; Microsomal receptor; Enzyme-receptor complex; Membrane protein; (Rat liver microsome) (Verly, W.G. (1008) 183)

Kennedy pathway
Phosphatidylcholine biosynthesis; Choline metabolite; Malaria; (*P. knowlesi*); (Monkey erythrocyte) (Ancelin, M.L. (1001) 82)

Keratin sulfate
Proteoglycan; Vitamin A deficiency; Cornea; Chondroitin (Twining, S.S. (992) 181)

β-Ketoacyl-ACP synthase
Fatty acid biosynthesis; (Oilseed rape); (*B. napus*) (MacKintosh, R.W. (1002) 114)

Ketogenesis
Carnitine; Acylcarnitine; Fatty acid metabolism; (Rat hepatocyte) (Brass, E.P. (1003) 209)

Phospholipase C; Phospholipase A_2; Arachidonic acid; 1-Oleoyl-2-acetyl-*sn*-glycerol; Oleate metabolism; (Rat hepatocyte) (Chihara, M. (1012) 5)

α-Ketoglutarate dehydrogenase complex
Component resolution; Kinetic parameter; (*N. crassa*) (Bessam, H. (990) 66)

Ketone body
Glucose; Glutamine; Mitogen stimulation; (Rat splenic lymphocyte) (O'Rourke, A.M. (1010) 342)

Ketopantoyl-lactone reductase
Carbonyl reductase; 2-Dehydropantoyl-lactone reductase; Conjugated polyketone reductase; (*C. parapsilosis*) (Hata, H. (990) 175)

15-Ketosterol
Sterol synthesis; pH; (Rat liver) (Stephens, T.W. (1001) 127)

KEX2 proteinase
Proalbumin processing; Liver microsome; Proalbumin Christchurch; α_1-Antitrypsin Pittsburgh; (Yeast); (Chicken) (Peach, R.J. (990) 276)

Kinase
Protein, 165 kDa; Insulin; Phosphotyrosine; Insulin receptor; Phosphorylation; (Rat) (Del Vecchio, R.L. (986) 41)

Kinetic constant
Monoamine oxidase; Granulocyte; Lymphocyte; Inhibitor sensitivity; Pargyline binding; (Human) (Dolors Balsa, M. (992) 140)

Glyoxalase II; Mitochondrion; Immunochemical characterization; (Rat liver) (Talesa, V. (993) 7)

Mathematical modeling; Membrane enzyme; Phospholipid vesicle; Enzyme kinetics; Partition constant (Heirwegh, K.P.M. (995) 151)

Kinetic mechanism
Glutamate dehydrogenase; NAD^+-glutamate dehydrogenase; (*H. halobium*) (Bonete, M.J. (990) 150)

Kinetic parameter
α-Ketoglutarate dehydrogenase complex; Component resolution; (*N. crassa*) (Bessam, H. (990) 66)

Kinetics
Electron transfer; Cytochrome *c*; Metal hexacyamide complex; Photoexcitation (Cho, K.C. (973) 53)

Halotolerant alga; Enzyme characterization; Vanadate sensitive ATPase; (*D. salina*) (Weiss, M. (974) 254)

Amino acid transport; Proton/amino acid symport; Energy coupling; Permease; (*P. cyclopium*) (Roos, W. (978) 119)

Melittin; Phospholipid bilayer; Protein–membrane interaction; Thermodynamics (Schwarz, G. (979) 82)

ATPase, Na^+/K^+-; ATP analog; Sodium pump (Rossi, R.C. (981) 85)

ATPase, Na^+/K^+-; Sodium pump; ATP hydrolysis; Cation effect (Rossi, R.C. (981) 95)

ATPase, Na^+/K^+-; Sodium pump; Potassium ion; Magnesium ion (Rossi, R.C. (981) 105)

Urea; Erythrocyte; Channel; Carrier; Permeability (Yousef, L.W. (984) 281)

pH indicator; Fluorescence; Emission ratio; Phospholipid vesicle (Knight, C.G. (985) 75)

Acid phosphatase; Derepression; (*Y. lipolytica*) (Moran, A. (990) 288)

Elastase; Kinetics; Proteinase; Temperature (Fitzpatrick, P.F. (995) 201)

Inositol 1-phosphatase kinetics; NMR; Inositol phosphate metabolism; Inositol 1,3,4-trisphosphate; Inositol 3,4-bisphosphate; Inositol 1,3,4,5-tetrakisphosphate (Hansen, C.A. (1001) 134)

Casein; Hypercholesterolemia; Apolipoprotein B turnover; (Rabbit) (Khosla, P. (1002) 157)

Bile salt dependent lipase; Bile salt; Activation; Boronic acid; Inhibition; (Human) (Abouakil, N. (1004) 215)

Plasminogen activator; Recombinant tissue type plasminogen activator; Vascular plasminogen activator; Amino acid sequence; Carbohydrate composition; (Human) (Hamaguchi, M. (1009) 143)

Anthracycline; Nuclear concentration; Fluorescence; (Human lymphocyte) (Tarasiuk, J. (1013) 109)

Cell proliferation; Cholera toxin; Inhibition; (Murine leukemia cell) (Pessina, A. (1013) 206)

Kinetics, i-site
Triphasic reduction; Cytochrome bc_1 complex; Semiquinone radical (West, I.C. (976) 182)

Kinetoplast DNA
RNA editing; DNA; Maxicircle; Minicircle; Transcription; (Trypanosome mitochondria) (Benne, R. (1007) 131)

Kininogen
Kininogenase; Inflammation; Sex hormone; Radioimmunoassay; Western blot (Chao, S. (991) 477)

Kininogenase
Kininogen; Inflammation; Sex hormone; Radioimmunoassay; Western blot (Chao, S. (991) 477)

Kringle 4 structure
Plasminogen; Antifibrinolytic; Photo-CIDNP experiment; Protein NMR; NMR, protein (De Marco, A. (994) 121)

Kupffer cell
Liposome targeting; Mannose receptor; Macrophage; (Mouse) (Muller, C.D. (986) 97)

Gadolinium chloride; Macrophage blockade; Liposome; Phagocytosis; (Rat hepatocyte) (Lázár, G. (1011) 97)

L

α-Lactalbumin
Photoactive hydrophobic labeling; Fusion; Phospholipid bilayer (Kim, J. (983) 1)

β-Lactamase II
ESR; Cobalt(II) reconstitution; metalloenzyme; (*B. cereus*) (Myers, J.L. (995) 264)

Lactate
Triacylglycerol turnover; Glycerol 3-phosphate; Glycogen; (Rat heart) (De Groot, M.J.M. (1006) 111)

Lactate dehydrogenase
Isozyme; Enzyme–lipid interaction (Dąbrowska, A. (980) 357)

Viscosity; Enzyme kinetics; Protein dynamics (Demchenko, A.P. (998) 196)

ssDNA binding protein; DNA polymerase stimulation; (*X. laevis* oocyte) (Kaiserman, H.B. (1008) 23)

Lactoferrin
Colostrum; Milk; ssDNA; Amino acid sequence; Purification; (Porcine) (Hutchens, T.W. (999) 323)

Lactogen
Human growth hormone; cyclic AMP; Nb_2 lymphoma; Protein phosphorylation (Kornberg, L.J. (1011) 205)

β-Lactoglobulin
Protein conformation; Heat denaturation; Monoclonal antibody (Kaminogawa, S. (998) 50)

Lactoperoxidase
Aromatic substrate; Substrate binding; NMR; Optical difference spectroscopy (Modi, S. (996) 214)

Lactose
Cellulase; Exocellobiohydrolase; Polyclonal antibody; (*T. emersonii*) (Hackett, T.J. (991) 248)

Lactose carrier
Cotransport; Proton transport; Galactoside dependence; *lac*Y; Transport energetics (King, S.C. (982) 253)

***lac*Y**
Cotransport; Proton transport; Galactoside dependence; Lactose carrier; Transport energetics (King, S.C. (982) 253)

Lamellar body
Phospholipid; Pulmonary surfactant; Respiratory distress; (Rabbit) (Casals, C. (1003) 201)

Amphiphilic drug; Binding study; (Rat lung) (Joshi, U.M. (1004) 309)

Phospholipid metabolism; Lung surfactant; (Rabbit lung) (Lewis, J. (1005) 277)

Lamellar phase
Dioleoylphosphatidylcholine bilayer; Water/lipid system; Hexagonal H_{II} phase; Rippled phase; X-ray diffraction (Bradshaw, J.P. (987) 104)

Lamellar repeat period
Phosphatidylinositol bilayer; Bilayer; Osmotic pressure; Neutron diffraction; X-ray diffraction (McDaniel, R.V. (983) 241)

Lamin A
Nuclear envelope; Lamin C; cDNA cloning; Nucleotide sequence; Amino acid sequence homology; (Mouse cDNA library) (Riedel, W. (1008) 119)

Lamin C
Nuclear envelope; Lamin A; cDNA cloning; Nucleotide sequence; Amino acid sequence homology; (Mouse cDNA library) (Riedel, W. (1008) 119)

Laminin
5′-Nucleotidase; Fibronectin; (Chicken gizzard) (Stochaj, U. (992) 385)

Fibronectin; Bacterial adherence; Extracellular matrix; Collagen; (*C. jejuni*) (Kuusela, P. (993) 297)

Laminin receptor, 68 kDa
5′-Nucleotidase; Glycosylation; Peptide map (Risse, G. (994) 258)

Langmuir-Blodgett film
Supported bilayer; Biosensor; Protein adsorption; Lipid bilayer; Microelectrophoresis (Stelzle, M. (981) 135)

Lanostene derivative
Cytochrome *P*-450 substrate recognition; Lanosterol demethylase; (Yeast) (Aoyama, Y. (1001) 196)

Lanosterol demethylase
Cytochrome *P*-450 substrate recognition; Lanostene derivative; (Yeast) (Aoyama, Y. (1001) 196)

Lanosterol 14α-demethylase
Cytochrome *P*-450 substrate binding; Lanosterol derivative; (Yeast) (Aoyama, Y. (1006) 209)

Lanosterol demethylation
Squalene; Cholestyramine; Hydroxymethylglutaryl-CoA; Acyl-CoA: cholesterol acyltransferase; (Rat) (Strandberg, T.E. (1001) 150)

Lanosterol derivative
Cytochrome *P*-450 substrate binding; Lanosterol 14α-demethylase; (Yeast) (Aoyama, Y. (1006) 209)

Lanthionine ketimine
Sulfur imino acid; Fluorometry; (Brain) (Ricci, G. (990) 211)

Large unilamellar vesicle
Polyene macrolide; Antifungal antibiotic; NMR, ^{31}P- (Hervé, M. (980) 261)

Polyene antibiotic; Amphotericin B; Calcium ion permeability; Liposome; Cholesterol; Ergosterol; Arsenazo III (Ramos, H. (982) 303)

Phosphatidylcholine, saturated; Extrusion; Liposome preparation (Nayar, R. (986) 200)

Polyene antibiotic; Filipin; Phosphatidylcholine; Dimyristoylphosphatidylcholine; Circular dichroism (Milhaud, J. (987) 193)

Laser
Anthracycline; Iminodaunomycin; Photoactivation; Cell photosensitization (Andreoni, A. (1014) 8)

Laser light scattering
ATPase, Na^+/K^+-; Quaternary structure; Dissociation-association equilibrium; (Canine kidney) (Hayashi, Y. (983) 217)

Latent form
Macropain; Multicatalytic proteinase; Proteinase; (Human erythrocyte) (McGuire, M.J. (995) 181)

Lateral compressibility
Lipid bilayer; Phase transition; Interface active molecule; Cholesterol; Density fluctuation; Heterogeneity (Cruzeiro-Hansson, L. (979) 166)

Lateral diffusion
Rod outer segment; Visual transduction; Rhodopsin; Transducin; G protein (Saxton, M.J. (979) 27)

Fluorescent lipid; Fluorescent probe; Phospholipid; Sterol; Membrane probe; Lucifer yellow-lipid conjugates (Nothnagel, E.A. (980) 209)

α-Tocopherol; Fluorescence; Phospholipid vesicle (Aranda, F.J. (985) 26)

Lateral phase separation
Bacteriorhodopsin; Freeze-fracture; NMR, ^{31}P-; Protein aggregation; Dimyristoylphosphatidylcholine; Electron microscopy; (*H. halobium*) (Sternberg, B. (980) 117)

Lateral protonic conduction
Phosphatidylcholine monolayer; Magnetic field effect; Orientational effect (Sakurai, I. (985) 347)

α-Latrotoxin channel
Black lipid membrane; Presynaptic neurotoxin, two barrier model (Robello, M. (978) 179)

Lauric acid
Myristic acid; Octanoic acid; Fatty acid oxidation; Mitochondrion; (Rat hepatocyte); (Peroxisome) (Christensen, E. (1004) 187)

LC2
Myosin filament; Skeletal muscle; Myosian assembly (Chowrashi, P.K. (990) 216)

L929 cells
Photodynamic effect; Hematoporphyrin derivative; Hyperthermia; Repair; 2-Aminoisobutyric acid transport; Protein synthesis (Boegheim, J.P.J. (979) 215)

LDL
Cholesterol homeostasis; Endocytosis (Sainte-Marie, J. (982) 265)

Phospholipid; Fluorescence spectroscopy; Lipid fluidity; (Human) (Vauhkonen, M. (984) 81)

Hepatic lipase deficiency; Lipoprotein lipase; HDL; Triacylglycerol; (Rabbit) (Clay, M.A. (1002) 173)

LDL receptor; Plasma cholesterol; Lipoprotein metabolism; (Human liver) (Nanjee, M.N. (1002) 245)

Lipoprotein; Tumor; Lipoprotein transport; LDL receptor; (Mouse) (Lombardi, P. (1003) 301)

Bile acid; Biliary secretion; Cholesterol metabolism; HDL; (Rat liver) (Bravo, E. (1003) 315)

HDL; Cholesterol transfer; Cholesterol esterification; (Human adipocyte) (Fong, B.S. (1004) 53)

Hypothyroidism; VLDL; HDL; Lipoprotein distribution; (Rat plasma) (Meyer, B.J. (1004) 73)

LDL receptor; Lipoprotein metabolism; Cell culture; (Human fibroblast) (Jaakkola, O. (1005) 118)

Acetylated low density lipoprotein receptor; Atherosclerosis; Lipoprotein acetylation; Macrophage stimulation; Scavenger receptor (Leake, D.S. (1005) 196)

Niemann-Pick type C fibroblast; Intracellular transport; Cholesterol oxidase; Sphingomyelinase; Cholesterol esterification (Slotte, J.P. (1005) 303)

Apolipoprotein B-100; Protein structure; Infrared; (Human) (Goormaghtigh, E. (1006) 147)

Dimethyl sulfoxide; Niemann-Pick C Disease; Lipoprotein cholesterol (Mackie, E.J.B. (1006) 219)

Lipoprotein receptor; Promoter; Apolipoprotein E receptor; LRP promoter (Kütt, H. (1009) 229)

Fc receptor; Monoclonal antibody; Cholesterol; (U937 cell) (Bigler, R.D. (1011) 102)

J774 macrophage; Cholesterol esterification; Acyl-CoA : cholesterol acyltransferase (Khoo, J.C. (1012) 215)

Fish oil; Angiotensin II; Inositol polyphosphate; Thromboxane A_2; Vascular smooth muscle cell (Locher, R. (1012) 279)

LDL binding
Chondroitin sulfate proteoglycan; Arterial wall; (Bovine) (Srinivasan, S.R. (1006) 159)

LDL receptor
Cholesterol; Apolipoprotein B; Apolipoprotein secretion; (Human liver); (Hepatoma cell line) (Fuki, I.V. (1001) 235)

Immunocytofluorimetry; Receptor binding; (Human blood lymphocyte) (Benhamamouch, S. (1002) 45)

LDL; Plasma cholesterol; Lipoprotein metabolism; (Human liver) (Nanjee, M.N. (1002) 245)

Lipoprotein catabolism; Ileal bypass; Cholesterol; Atherosclerosis; (WHHL rabbit) (Mol, M.J.T.M. (1003) 167)

LDL; Lipoprotein; Tumor; Lipoprotein transport; (Mouse) (Lombardi, P. (1003) 301)

LDL; Lipoprotein metabolism; Cell culture; (Human fibroblast) (Jaakkola, O. (1005) 118)

Leaching, bacterial
Sulfur oxidation; Sulfur:ferric ion oxidoreductase; (*T. ferrooxidans*) (Sugio, T. (973) 250)

Lead
Calcium activated potassium ion channel; Potassium ion channel; Atebrin; Menadione; Oxidoreductase; (Human erythrocyte) (Fehlau, R. (978) 37)

Leaf
Chloroplast; ATPase; Thiol activation; Electrochromism (Kramer, D.M. (976) 28)

Leak
Oxidative phosphorylation; Slip; Membrane permeability; Stoichiometry change (Murphy, M.P. (977) 123)

Leakage
Platelet membrane; Detergent; Cell lysis; Component solubility; Electron microscopy; Aggregation; (Human blood) (Shiao, Y.-J. (980) 56)

Leak permeability
Erythrocyte membrane; Photodynamic treatment; Transbilayer mobility; Flip-flop; Phospholipid; (Human) (Deuticke, B. (982) 53)

Lecithin–cholesterol acyltransferase
Intralipid; Lipolysis; Heparin (Amr, S. (1001) 145)

HDL conversion; Particle size profile; Chemical crosslinking; Lipoprotein metabolism; (Human plasma) (Nichols, A.V. (1001) 325)

Apolipoprotein A-IV; Amino acid sequence; DNA sequence; HDL; Sequence heterogeneity (Yang, C.-y. (1002) 231)

Phosphatidylcholine; Molecular species profile; Enzyme deficiency (Subbaiah, P.V. (1003) 145)

High density lipoprotein; Lipoprotein lipase; Cholesterol ester transfer reaction; (Human plasma) (Simard, G. (1005) 245)

Serum amyloid A; HDL metabolism; Cholesteryl ester; (Human plasma) (Steinmetz, A. (1006) 173)

Apolipoprotein E; Discoidal complex; Lipoprotein conversion (Gong, E.L. (1006) 317)

Lectin
Bioassay; Plasminogen activator (Electricwala, A. (990) 53)

β-Galactoside binding lectin; Hepatic lectin; Characterization (Ali, N. (992) 30)

cDNA sequence; β-Galactoside binding; IgE binding protein; Superfamily; (Human) (Hirabayashi, J. (1008) 85)

Serum albumin; Protein glycosylation (Aring, J. (1010) 140)

Lectin gene
Cloning; Transcription initiation site; (*Sarcophaga*) (Kobayashi, A. (1009) 244)

Lectin purification
Affinity chromatography; β-Galactoside binding; (Thigh muscle); (*R. tigerina*) (Shet, M.S. (991) 465)

Leghemoglobin
Nitrogen fixation; ATP synthesis; Hydrogen oxidation; Electron transport (O'Brian, M.R. (974) 229)

Legumin
Limited proteolysis; Protein structure (Plumb, G.W. (999) 281)

Lens
Aldo-keto reductase; (*C. dromedarius*) (Del Corso, A. (993) 116)

Polyamine uptake; Active transport; Polyamine metabolism; (Rat) (Maekawa, S. (993) 199)

Protein kinase, cyclic AMP dependent; cyclic AMP dependence; Distribution; (Bovine eye) (Hur, K.C. (1010) 56)

Lens fiber
Posterior subcapsular cataract; Retinitis pigmentosa; Lipid peroxidation; Membrane damage; Glutathione; Cataractogenesis; (Human) (Babizhayev, M.A. (1004) 124)

Lens plasma membrane
Gap junction; cyclic AMP; Protein phosphorylation; (Sheep lens) (Voorter, C.E.M. (986) 8)

Lens protein
α-Crystallin; Hybrid; Homopolymer (Thomson, J.A. (994) 246)

Leucine
Glutamate dehydrogenase; Enzyme activation (Couée, I. (995) 97)

Lipid synthesis; Lipoprotein synthesis; Apolipoprotein; (Zucker rat); (Hepatocyte culture) (Wang, S.R. (1002) 302)

Leucine-rich glycoprotein
cDNA sequence; Amino acid sequence; Sequence homology; (Mouse cDNA); (Human cDNA) (Setoguchi, M. (1008) 213)

Leucine transport
β-Casomorphin; Epithelium, intestinal; Epithelium, tight; Peptide; (Rat) (Ermisch, A. (982) 79)

Leu-enkephalin
Solution conformation; Energy calculation; NMR; Overhauser effect (Vesterman, B. (998) 204)

Leukemia
Band 3 protein; Chronic myelogenous leukemia; Ankyrin binding site; (Human blood) (Kundu, M. (985) 97)

S-Adenosyl-L-methionine; Plasma membrane; HL-60 cell (Duerre, J.A. (985) 211)

Leukemia cell
Amino acid transport; Macrophage; Differentiation; Lipopolysaccharide; (Mouse) (Sato, H. (983) 259)

Methotrexate; Methotrexate transport; Membrane protein; Anion transport; Crosslinking (Jansen, G. (985) 266)

Nonenzymatic glycosylation; THP-1; Aldehyde modified protein; Scavenger receptor (Takata, K. (986) 18)

Streptolysin O; Inositol phosphate; Inositol phospholipid turnover; Antigen stimulation; GTPγS; (Permeabilized RBL-2H3 cell) (Ali, H. (1010) 88)

Leukocyte
PAF; Platelet; PAF synthesis (Sturk, A. (993) 148)

Elastase; Proteinase inhibitor; Mucus; (Human) (Boudier, C. (995) 36)

Neutrophil cytoplast; Respiratory burst; Calcium ionophore; (Human) (Dahlgren, C. (1010) 41)

Leukotriene
Lipoxygenase; Cyclooxygenase; Prostaglandin (Holtzman, M.J. (1003) 204)

Leukotriene A_4 hydrolase
Radioimmunoassay; Leukotriene metabolism; (Human tissue) (Fu, J.Y. (1006) 121)

Leukotriene B
Lipoxygenase; Fatty acid; (Blood cell); (Rainbow trout) (Pettitt, T.R. (1003) 1)

Leukotriene metabolism
Radioimmunoassay; Leukotriene A_4 hydrolase; (Human tissue) (Fu, J.Y. (1006) 121)

Leukotriene production
PAF; PAF antagonist; Phospholipid mediator; (Human monocyte) (Fauler, J. (1013) 80)

Lexitropsin
Circular dichroism; DNA sequence specificity; Netropsin ligand binding; DNA–drug interaction (Burckhardt, G. (1009) 11)

Leydig cell
Tissue corticotropin releasing factor; Immunoaffinity column chromatography; Paracrine effect; (Testis) (Audhya, T. (995) 10)

LHC II
Fluorescence; Chloroplast; Phosphorylation; Protein kinase; Photosystem II; (Spinach leaf) (Islam, K. (974) 261)

LHC II heterogeneity
Chlorophyll protein; Isoelectric focusing; Light harvesting; Photosystem II (Spangfort, M. (977) 163)

Lifetime distribution
Cholesterol; 1,6-Diphenyl-1,3,5-hexatriene; Frequency domain fluorometry; Microheterogeneity (Fiorini, R. (1006) 198)

Ligand
Acetylcholinesterase; Monoclonal antibody; Indophenyl acetate; 1-Methyl-2-hydroxyiminomethylpyridinium chloride (Wolfe, A.D. (997) 232)

Liposome; Antibody; Targeting (Senior, J. (1003) 58)

Ligand binding
Prosthetic group; Catalase; (Spinach) (Hirasawa, M. (994) 229)

Cholinesterase; Acetylcholinesterase; Inhibitor; Enzyme denaturation (Payne, C.S. (999) 46)

Light harvesting
Energy transfer; Transposon mutagenesis; Photosynthesis; Antenna complex; (*Rb. sphaeroides*) (Hunter, C.N. (973) 383)

Chlorophyll protein; Isoelectric focusing; LHC II heterogeneity; Photosystem II (Spangfort, M. (977) 163)

Chlorophyll-protein complex; CP29; Ion-exchange HPLC; Amino acid sequence, partial; Photosystem II; (Spinach) (Henrysson, T. (977) 301)

Light harvesting antenna
Photosynthesis, bacterial; Excitation transfer; Picosecond fluorescence; Fluorescence; Excitation annihilation; (*Rb. sphaeroides*); (*Chr. minutissimum*) (Freiberg, A. (973) 93)

Light-harvesting antenna, bacterial
Carotenoid; Reaction center II, bacterial; (*R. rubrum*); (*Rb. capsulatus*) (Lozano, R.M. (976) 196)

Light harvesting chlorophyll II
Oxygen evolution; Photosystem II; Extrinsic protein; Calcium; (Spinach) (Enami, I. (977) 33)

Light harvesting complex
Carotenoid band shift; Pigment-protein complex; Reaction center; Reconstitution; (*Rb. sphaeroides*) (Crielaard, W. (973) 205)

Protein phosphorylation; Bicarbonate effect; Photoinhibition; Thylakoid membrane; (Spinach) (Sundby, C. (975) 277)

Light-harvesting pigment
Fucoxanthin-chlorophyll *a*/*c* protein; Chlorophyll *c*; Supramolecular assembly; Decyl sucrose; Energy transfer; (Brown alga); (*D. dichotoma*) (Katoh, T. (976) 233)

Light intensity
Photosynthetic electron transport; Carbon assimilation; Chlorophyll fluorescence; (Spinach); (Barley) (Stitt, M. (973) 241)

Light scattering
Reflection coefficient; Brush-border membrane; Refractive index; Osmotic permeability; (Rat kidney) (Van der Goot, F. (979) 272)

Proximal tubule; Osmotic permeability; Reflection coefficient; Membrane vesicle; (Rabbit kidney) (Van der Goot, F.G. (986) 332)

α-Crystallin; Phosphorylation; Tertiary structure; Tryptophan environment; Sulfhydryl location; Electron microscopy (Augusteyn, R.C. (999) 293)

Light state transition
Photosystem I; Excitation energy distribution; Cytochrome *f* photooxidation; P-700 photooxidation; (Red algae) (Rehm, A.M. (973) 131)

Ligninase
Compound I; Compound II; Hydrogen peroxide; Veratryl alcohol; Potassium ferrocyanide; One electron oxidation; Pre-steady-state kinetics (Harvey, P.J. (994) 59)

Lignin peroxidase
Phenolic hydroxylation; Compound III (Schmall, M.W. (999) 267)

Lignoceric acid
Cerebroside sulfate; Phase transition; NMR, ^{2}H- (Jeffrey, K.R. (986) 241)

Lignoceryl-CoA ligase
Peroxisomal β-oxidation; Erucic acid; Adrenic acid; X-linked adrenoleukodystrophy; Neonatal adrenoleukodystrophy; (Human fibroblast) (Christensen, E. (1002) 79)

Limited proteolysis
HMG protein; Domain structure; *Staphylococcus aureus* proteinase; Endoproteinase GluC (Abdul-Razzak, K.K. (996) 125)

Legumin; Protein structure (Plumb, G.W. (999) 281)

Lindane
Insecticide–membrane interaction; Fluorescence polarization; Fluorescence probe; Membrane fluidity; Cholesterol (Antunes-Madeira, M.C. (982) 161)

Phospholipid composition; Cholesterol; (Rat prostate) (Gutierrez-Ocaña, M.T. (1003) 67)

LINE 1
Long interspersed repeat (L1); Nucleic acid sequence, location in genome; (Rat) (White, J.W. (1009) 287)

LINE 1 interruption
α2u Globulin; Urinary protein; Genomic sequence; Movable genetic element; Terminal redundancy (Yamamoto, M. (1008) 322)

Linear dichroism
State transition; Fluorescence; Photosynthesis; Phycobilisome; (*P. cruentum*); (*Synechococcus* sp. PCC 6301) (Brimble, S. (973) 315)

Link protein
Viscosity; Proteoglycan (Mow, V.C. (992) 201)

Linoleic acid
Mitogen stimulation; Fatty acid composition; (Human lymphocyte) (Shires, S.E. (1002) 74)

Butylated hydroxytoluene; Probucol; Peroxidation; Cholesterol esterification; Cholesterol secretion (Stein, O. (1003) 115)

Lipase; Colipase; Carboxyl ester lipase; Arachidonic acid (Chen, Q. (1004) 372)

Diet; Sialyl receptor; (Rat platelet) (Bolton-Smith, C. (1005) 183)

Linoleic acid hydroperoxide
Lipoxygenase mechanism; pH effect; (*Glycine max*) (Gardner, H.W. (1001) 274)

Linoleic acid metabolism
trans-Fatty acid; α-Linolenic acid; Arachidonic acid; Desaturation; Dietary fat; Polyunsaturated fatty acid; (Rat) (Zevenbergen, J.L. (1002) 312)

Phosphatidylethanolamine; Ethanolamine; (Rat liver) (Imaizumi, K. (1005) 253)

α-Linolenic acid
Linoleic acid metabolism; *trans*-Fatty acid; Arachidonic acid; Desaturation; Dietary fat; Polyunsaturated fatty acid; (Rat) (Zevenbergen, J.L. (1002) 312)

Linseed oil
Fish oil; Triacylglycerol; $n-3$ fatty acid; Hypotriglyceridemia; (Rat) (Garg, M.L. (1006) 127)

Lipase
Metabolic zonation; Liver lipase; (Rat hepatocyte) (Verhoeven, A.J.M. (1001) 239)

Metachromasy; Lipolytic enzyme; Safranine; Spectrophotometric assay (Rawyler, A. (1004) 337)

Colipase; Carboxyl ester lipase; Arachidonic acid; Linoleic acid (Chen, Q. (1004) 372)

Hormone sensitive lipase; Adipose tissue; mRNA; cDNA; (Human) (Holm, C. (1006) 193)

Gastric lipase; Human gastric lipase (Gargouri, Y. (1006) 255)

Lipase activity
Pyrenemethyl laurate; Pyrenemethanol; Fluorometry (Nègre, A. (1006) 84)

Lipase deficiency
Lipoprotein lipase; Lipase gene; (Mouse) (Oka, K. (1008) 351)

Lipase gene
Lipoprotein lipase; Lipase deficiency; (Mouse) (Oka, K. (1008) 351)

Lipase inhibitor
Fat absorption; Tetrahydrolipstatin; (Rat intestine) (Fernandez, E. (1001) 249)

Lipemia
NMR; Lipoprotein; Malignancy (Verdery, R.B. (1006) 287)

Lipid
ω-Cyclohexyl fatty acid; Phosphatidylcholine; Fourier transform infrared spectroscopy; Thermotropic phase behavior (Mantsch, H.H. (980) 42)

Lipopeptide; Antifungal; Iturin; Mixed monolayer (Maget-Dana, R. (981) 309)

Lipid/air interface
Ganglioside; Phospholipid; Monolayer; Water/lipid interface; Surface potential; Electric dipole moment (Beitinger, H. (984) 293)

Lipid asymmetry
Lipid vesicle; Phosphatidylethanolamine; Ganglioside; Curvature (Thomas, P.D. (978) 85)

Lipid–protein interaction; Phosphatidylserine; Calpain; Diamide; Cytoskeleton; (Human platelet) (Comfurius, P. (983) 212)

Phase partition; Poly(ethylene glycol); Dextran; Surface charge (Tilcock, C. (986) 167)

Lipid bilayer
Cholesterol; Gramicidin A; Channel inactivation; (Erythrocyte) (Schagina, L.V. (978) 145)

X-ray diffraction; Membrane structure; Peptide–lipid interaction; Dipalmitoylphosphatidylcholine; Alpha-helical peptide (Huschilt, J.C. (979) 139)

Phase transition; Interface active molecule; Cholesterol; Density fluctuation; Heterogeneity; Lateral compressibility (Cruzeiro-Hansson, L. (979) 166)

Porin; PhoE; Hybrid protein; Ion selectivity; Charged group; (*E. coli* K-12 membrane) (Benz, R. (981) 8)

Supported bilayer; Biosensor; Langmuir-Blodgett film; Protein adsorption; Microelectrophoresis (Stelzle, M. (981) 135)

Spin label; Interdigitated bilayer (Boggs, J.M. (981) 243)

Membrane conductance; Electric field effect; Dipolar interaction (Robello, M. (982) 173)

Apical membrane; *p*-Aminohippurate carrier; Alkaline phosphatase; Phase state; Campbell mutation; (Rat) (Bresler, V.M. (982) 288)

Spin label; Interdigitation; Phase transition; Polymyxin B; Polymyxin B nonapeptide (Wang, H.-Y. (985) 182)

Spin label; Interdigitation; Phase transition; Acidic lipid; Polymyxin B; Polymyxin B nonapeptide (Boggs, J.M. (985) 199)

Gramicidin A; NMR (Cornell, B.A. (985) 229)

Cerebroside sulfate; X-ray diffraction; Interdigitation; Phase behavior (Stinson, R.H. (986) 234)

Porin; Mitochondrion; Reconstitution; Ion selectivity; VDAC; (*D. melanogaster*) (De Pinto, V. (987) 1)

Peptaibol; Trichorzianin analog; Amino alcohol; Voltage-dependent conductance; Single-channel behavior (Duclohier, H. (987) 133)

Lipid bilayer membrane
Mitochondrial porin; Outer mitochondrial membrane; Mitochondrial metabolism; (*Paramecium*) (Ludwig, O. (978) 319)

Lipid bilayer vesicle
Fluorescence polarization; Parinaric acid; Lipid state; Membrane fragment; Freeze-thawing; (*E. coli*) (Souzu, H. (978) 105)

Lipid characterization
Complex lipid; Phosphoglycolipid; (*Thermococcales*); (Archaebacteria) (Lanzotti, V. (1004) 44)

Glycosphingolipid; Ganglioside; Cartilage; (Pig cortical bone); (Pig cartilage) (Fukaya, N. (1004) 108)

Lipid charge
Magainin 1; Membrane permeability; Binding isotherm; Secondary structure (Matsuzaki, K. (981) 130)

Lipid composition
Membrane fluidity; Lipid–protein interaction; ESR; Brush-border membrane vesicle; Dietary fatty acid; (Porcine small intestine) (Christon, R. (980) 77)

Cytodifferentiation; (*T. vorax* V_2S) (Ryals, P.E. (991) 438)

Fatty acid desaturase; Fatty acid composition; Phytosterol; Membrane fluidity; (Rat liver microsome) (Leikin, A.I. (1005) 187)

Lipid dependence
Ethanolaminephosphotransferase; Enzyme purification; Enzyme reconstitution; (Rat brain microsome) (Roberti, R. (1004) 80)

Lipid derived radical
Spin trapping; ESR; Liposome (Feix, J.B. (992) 230)

Lipid digestion
Gastric lipase; Gastric lipolysis; Triacylglycerol hydrolysis; (Human); (Bovine) (Bernbäck, S. (1001) 286)

Lipid emulsion
High density lipoprotein; Phosphatidylcholine; (Rat) (Martins, I.J. (1005) 217)

Lipid exchange
Intervesicular exchange; pH gradient (Eastman, S.J. (981) 178)

Lipid fluidity
ATPase, H^+-; Lipid–protein interaction; Protein conformation; Magnesium ion (Zhang, X.F. (976) 53)

D-Glucose; Brush-border membrane; Fish oil; Butter fat; Fatty acid; (Rat small intestine) (Brasitus, T.A. (979) 177)

LDL; Phospholipid; Fluorescence spectroscopy; (Human) (Vauhkonen, M. (984) 81)

Lipid hydrolysis
VLDL; Apolipoprotein topography; (Human plasma) (Dergunov, A.D. (1005) 79)

Lipidic particle
Cryo-electron microscopy; Membrane fusion; Vitrification; Sonicated vesicle (Frederik, P.M. (979) 275)

Lipid lateral diffusion
Lipid–protein interaction; Myelin basic protein; Spin label; ESR (Páli, T. (984) 128)

Lipid mediator
PAF; HPLC; (*S. gairdneri*); (Trout spleen) (Turner, M.R. (1004) 49)

Lipid membrane
Ion channel; Gramicidin A; Radiolysis; Photolysis (Strässle, M. (980) 305)

Lipid metabolism
Fatty acid binding protein; α-Fetoprotein; Immunoassay; Postnatal development; (Rat tissue) (Paulussen, R.J.A. (1001) 201)

Fatty acid oxidation; (Morris hepatoma cell line) (Spydevold, (1003) 80)

Retinol; Retinoic acid; Ito cell; Myofibroblast; (Mouse liver cell) (Margis, R. (1011) 1)

Lipid mobility
Plasmalogen deficiency; Membrane fluidity; Fluorescence anisotropy; (Human skin fibroblast) (Hermetter, A. (978) 151)

Lipid monolayer
Nonspecific lipid transfer protein; Sterol carrier protein 2; Cholesterol; Oxysterol derivative (Van Amerongen, A. (1004) 36)

Lipid packing
ATP synthesis; CF_0/CF_1; Membrane fluidity; Monogalactosyldiacylglycerol; Transmembrane distribution (Rawyler, A. (975) 283)

Lipid–peptide interaction
Membrane potential; Model peptide (De Kroon, A.I.P.M. (981) 371)

Lipid permeability
Membrane fluidity; Microvillus membrane; Cholesterol; 7-Dehydrocholesterol; (Rat) (Meddings, J.B. (984) 158)

Lipid peroxidation
Protein conformation; Fluorometry; *N*-(1-Pyrene)maleimide; Brush-border membrane; (Porcine small intestine) (Ohyashiki, T. (981) 235)

ATPase, Ca^{2+}-; Oxidative damage; Brush-border membrane; (Porcine small intestine) (Ohta, A. (984) 151)

Lipoxygenase; Monoamine oxidase; (Rat liver) (Wiesner, R. (986) 11)

Hemoglobin; Hemichrome; Fatty acid (Akhrem, A.A. (992) 191)

Nucleus; Glutathione *S*-transferase (Tirmenstein, M.A. (995) 174)

Nuclear membrane; Nuclear macromolecule; DNA adduct (Vaca, C.E. (1001) 35)

α-Tocopherol; Dihydrolipoate; Antioxidant; Microsome; (Rat) (Scholich, H. (1001) 256)

Tocopherol depletion; Radical stress; Mitochondrial membrane; Protein fragmentation; (Rat) (Thomas, S.M. (1002) 189)

Vitamin E; Biliverdin; Bilirubin; Antioxidant; Synergism (Stocker, R. (1002) 238)

Phospholipid hydroperoxide; Phosphatidylethanolamine; Hydroperoxide decomposition; Iron binding protein; (Human blood plasma) (Terao, J. (1003) 221)

Nonesterified fatty acid; Inhibition; Fatty acid; (Rat microsome) (Balasubramanian, K.A. (1003) 232)

Iron overload; Ethane; Glutathione; L-Buthionine (*S,R*)sulfoximine; (Mouse) (Kawabata, T. (1004) 89)

Posterior subcapsular cataract; Retinitis pigmentosa; Lens fiber; Membrane damage; Glutathione; Cataractogenesis; (Human) (Babizhayev, M.A. (1004) 124)

Glutathione; L-Carnosine; Histidine; Dipeptide; (Posterior subcapsular cataract) (Babizhayev, M.A. (1004) 363)

DNA synthesis; Mitogenic response; Splenocyte; Thymocyte; (Mouse) (Oarada, M. (1012) 156)

Calcium ion homeostasis; Cell injury; Iron concentration; Ion transport; (Rat liver mitochondria) (Masini, A. (1014) 133)

Lipid phase diagram
Interdigitated phase; Phosphatidylcholine; Cerebroside; Sulfatide; Calorimetry (Gardam, M. (980) 319)

Lipid phase fluidity
Arachidonic acid; Platelet desensitization; U46619 binding; Platelet membrane; (Human) (Sato, T. (992) 168)

Lipid phase transition
Inverted hexagonal phase; Cryoprotectant; Hofmeister effect; Phosphatidylethanolamine; Hexagonal H_{II} phase (Koynova, R.D. (980) 377)

Lipid polymorphism
Gramicidin; Bilayer thickness; Hexagonal H_{II} phase formation; NMR, ^{31}P-; Small angle X-ray diffraction (Killian, J.A. (978) 341)

Non-bilayer; Fluorescence; Cardiolipin; Hexagonal H_{II} phase (Stubbs, C.D. (986) 89)

Lipid–protein interaction
Protonated Schiff base; Opsin shift; Chromophore; Resonance Raman spectroscopy; (Bacteriorhodopsin) (Pande, C. (973) 257)

ATPase, H^+-; Protein conformation; Magnesium ion; Lipid fluidity (Zhang, X.F. (976) 53)

Clathrin; Coated vesicle; ESR; NMR, ^{31}P-; Fluorescence anisotropy (Privat, J.-P. (979) 257)

Phase separation; Bilayer; Annealing; Phospholipase A_2; Interfacial catalysis; Interfacial activation (Jain, M.K. (980) 23)

Membrane fluidity; ESR; Brush-border membrane vesicle; Lipid composition; Dietary fatty acid; (Porcine small intestine) (Christon, R. (980) 77)

Phospholipid mixture; Melittin; Phase separation; Fluorescence; Raman spectroscopy (Lafleur, M. (980) 85)

Phosphatidylserine; Lipid asymmetry; Calpain; Diamide; Cytoskeleton; (Human platelet) (Comfurius, P. (983) 212)

Lipid lateral diffusion; Myelin basic protein; Spin label; ESR (Páli, T. (984) 128)

Lysolipid; Sugar transport; Erythrocyte membrane; (Human) (Naderi, S. (985) 173)

Photosystem II; Spin label; Saturation transfer ESR; ESR (Li, G. (987) 187)

Pulmonary surfactant; Surfactant associated protein; Phospholipid; Surface tension (Chung, J. (1002) 348)

Fatty acid elongation; Condensation; Phospholipase A_2; Free fatty acid (Yoshida, S. (1004) 239)

Lipid saturation
Photosystem I; Electron transport; Catalytic hydrogenation; Thermal stability (Vigh, L. (979) 361)

Lipid state
Fluorescence polarization; Parinaric acid; Lipid bilayer vesicle; Membrane fragment; Freeze-thawing; (*E. coli*) (Souzu, H. (978) 105)

Fluorescence polarization; Freeze-thawing; Parinaric acid; Dehydration; (*E. coli*) (Souzu, H. (978) 112)

Lipid synthesis
Leucine; Lipoprotein synthesis; Apolipoprotein; (Zucker rat); (Hepatocyte culture) (Wang, S.R. (1002) 302)

Fatty acid; Acyl-CoA; Acyl-CoA elongase; (*A. porrum*) (Lessire, R. (1006) 35)

Lipid transfer protein
Cholesteryl ester transfer protein; HDL; Apolipoprotein A-I; Apolipoprotein E; Apolipoprotein A-IV; (Rat) (Groener, J.E.M. (1002) 93)

Esterified cholesterol transfer; Triacylglycerol transfer; Lipoprotein; HDL; Lipoprotein modification; (Rabbit) (Abbey, M. (1003) 20)

Lipid transport
Fatty acid transport; Golgi complex; Monensin; (Leek seed) (Bertho, P. (978) 91)

Development; Expression; Cholesterol (Levin, M.S. (1003) 293)

Lipid vesicle
Lipid asymmetry; Phosphatidylethanolamine; Ganglioside; Curvature (Thomas, P.D. (978) 85)

Phase partition; Poly(ethylene glycol); Partitioning kinetics; Vesicle size (Tilcock, C. (979) 208)

Hexagonal H_{II} phase; Transition temperature; Phosphatidylethanolamine (Brown, P.M. (980) 181)

Phospholipid; Curvature; Reorientational dynamics; ESR; Cholestane spin label; Hydration (Korstanje, L.J. (982) 196)

Internal volume; Dynamic light scattering (Kojro, Z. (985) 1)

Lipid/water interface
Anesthesia mechanism; Partition coefficient; Binding mode; Surfactant micelle; Volatile anesthetic (Yoshida, T. (985) 331)

Phospholipase A_2; Protein inhibition; Liposome; Micelle; Protein stimulation; (Pancreas); (Bee venom) (Conricode, K.M. (1003) 36)

Lipid X
Phosphatidylcholine; Phosphatidylethanolamine; Phase behavior; pH jump; Thermodynamic stability (Lipka, G. (979) 239)

Lipoamidase
Biotinidase; (Guinea pig liver) (Oizumi, J. (991) 410)

Lipocortin
Phorbol ester; Protein phosphorylation; Zymosan; Lipopolysaccharide; (Mouse macrophage) (Wijkander, J. (1010) 78)

Lipolysis
Intralipid; Lecithin:cholesterol acyltransferase; Heparin (Amr, S. (1001) 145)

Chylomicron-like emulsion; Cholesteryl oleate; Triolein; (Rat) (Mortimer, B.C. (1002) 359)

Lipolytic enzyme
Metachromasy; Lipase; Safranine; Spectrophotometric assay (Rawyler, A. (1004) 337)

Lipopeptide
Lipid; Antifungal; Iturin; Mixed monolayer (Maget-Dana, R. (981) 309)

Lipopeptide antibiotic
A21978C; LY146032; Calcium dependence; Daptomycin; Dimyristoylphosphatidylcholine (Lakey, J.H. (985) 60)

Lipophile
Phase separation; Bilayer; Fluorescence; NK-529; Cyanine dye (Yu, B.-Z. (980) 15)

Lipopolysaccharide
Amino acid transport; Macrophage; Leukemia cell; Differentiation; (Mouse) (Sato, H. (983) 259)

Intracytoplasmic membrane; Membrane biogenesis; Protein export; *secA* gene; (*E. coli*) (De Cock, H. (985) 313)

Phorbol ester; Protein phosphorylation; Zymosan; Lipocortin; (Mouse macrophage) (Wijkander, J. (1010) 78)

Lipopolysaccharide-low density lipoprotein complex
Phospholipid packing; Toxin inactivation; Hyperlipidemia; ESR; NMR, ^{31}P-; Ultracentrifugation; Fluorescence; (Human) (Victorov, A.V. (984) 119)

Lipoprotein
Pulmonary surfactant; Tubular myelin; Alveolar surface tension; Alveolar stability; (Canine lung) (King, R.J. (1001) 294)

Squalene synthetase; Sterol regulation; Compactin; U18666A; (Hep G2) (Cohen, L.H. (1002) 69)

Lipid transfer protein; Esterified cholesterol transfer; Triacylglycerol transfer; HDL; Lipoprotein modification; (Rabbit) (Abbey, M. (1003) 20)

LDL; Tumor; Lipoprotein transport; LDL receptor; (Mouse) (Lombardi, P. (1003) 301)

Apolipoprotein; Surface property (Ibdah, J.A. (1004) 300)

Cholesterol; Bile; Liver; Cholesterol transport (Robins, S.J. (1004) 327)

Bile acid synthesis; Cholesterol synthesis; (Rabbit hepatocyte culture) (Whiting, M.J. (1005) 137)

Glucagon; Apoprotein; Plasma cholesterol; Cholesterol; (Rat) (Guettet, C. (1005) 233)

NMR; Malignancy; Lipemia (Verdery, R.B. (1006) 287)

Dehydroepiandrosterone; Steroid hormone; Steroid esterification; HDL_3 (Leszczynski, D.E. (1014) 90)

Lipoprotein (a)
Apolipoprotein a; Apolipoprotein B; Primary hepatocyte; (Baboon) (Rainwater, D.L. (1003) 30)

Plasma lipoprotein; Hormonal regulation; Lipoprotein metabolism; (Hedgehog) (Laplaud, P.M. (1005) 143)

Lipoprotein acetylation
Acetylated low density lipoprotein receptor; Atherosclerosis; LDL; Macrophage stimulation; Scavenger receptor (Leake, D.S. (1005) 196)

Lipoprotein assembly
Apolipoprotein synthesis; Flotation property; Hepatocyte; (Rat) (Hussain, M.M. (1001) 90)

Apolipoprotein; HDL; Secretion; Transfection; (Chicken) (Dixon, J.L. (1009) 47)

Lipoprotein catabolism
Ileal bypass; LDL receptor; Cholesterol; Atherosclerosis; (WHHL rabbit) (Mol, M.J.T.M. (1003) 167)

Lipoprotein cholesterol
Dimethyl sulfoxide; Niemann-Pick C Disease; LDL (Mackie, E.J.B. (1006) 219)

Lipoprotein conversion
Apolipoprotein E; Discoidal complex; Lecithin–cholesterol acyltransferase (Gong, E.L. (1006) 317)

Lipoprotein distribution
Hypothyroidism; VLDL; LDL; HDL; (Rat plasma) (Meyer, B.J. (1004) 73)

Lipoprotein lipase
Bone marrow macrophage; Macrophage; Colony stimulating factor; (Mouse) (Goldman, R. (1001) 120)

Hepatic lipase; Triacylglycerol lipase; HDL; Cholesteryl ester transfer reaction; (Human) (Simard, G. (1001) 225)

Hepatic triacylglycerol lipase; Chylomicron; Tumor necrosis factor; (Human) (Chajek-Shaul, T. (1001) 316)

Hepatic lipase deficiency; HDL; LDL; Triacylglycerol; (Rabbit) (Clay, M.A. (1002) 173)

Cholesterol metabolism; Triacylglycerol metabolism; VLDL; (Diabetic rabbit) (Minnich, A. (1002) 324)

Hepatic lipase; Heparin; HDL structure; Crosslinking; Apolipoprotein (Swaney, J.B. (1002) 338)

Cachectin/tumor necrosis factor; Interleukin-1; Synergism; (Mouse 3T3-L1 adipocyte) (Ogawa, H. (1003) 131)

Triglyceride lipase; Purification; Immunochemistry; Lipoprotein metabolism; (Human liver) (Ikeda, Y. (1003) 254)

Enzyme activity; Calcium; Ionophore A23187; Thrombin; (Rat adipocyte) (Soma, M.R. (1003) 307)

Lecithin–cholesterol acyltransferase; High density lipoprotein; Cholesterol ester transfer reaction; (Human plasma) (Simard, G. (1005) 245)

cDNA sequence; mRNA; (Avian); (Adipose); (Heart) (Cooper, D.A. (1008) 92)

Lipase deficiency; Lipase gene; (Mouse) (Oka, K. (1008) 351)

Lipoprotein metabolism
HDL conversion; Lecithin:cholesterol acyltransferase; Particle size profile; Chemical crosslinking; (Human plasma) (Nichols, A.V. (1001) 325)

LDL receptor; LDL; Plasma cholesterol; (Human liver) (Nanjee, M.N. (1002) 245)

Lipoprotein lipase; Triglyceride lipase; Purification; Immunochemistry; (Human liver) (Ikeda, Y. (1003) 254)

LDL; LDL receptor; Cell culture; (Human fibroblast) (Jaakkola, O. (1005) 118)

Plasma lipoprotein; Lipoprotein (a); Hormonal regulation; (Hedgehog) (Laplaud, P.M. (1005) 143)

Apolipoprotein A-IV; Plasma; Lymph; (Rat) (Ghiselli, G. (1006) 26)

Lipoprotein modification
Lipid transfer protein; Esterified cholesterol transfer; Triacylglycerol transfer; Lipoprotein; HDL; (Rabbit) (Abbey, M. (1003) 20)

Lipoprotein receptor
LDL; Promoter; Apolipoprotein E receptor; LRP promoter (Kütt, H. (1009) 229)

Lipoprotein secretion
Phosphatidylcholine; Phosphatidylethanolamine molecular species; (Rat hepatocyte) (Vance, J.E. (1006) 59)

Lipoprotein synthesis
Lipid synthesis; Leucine; Apolipoprotein; (Zucker rat); (Hepatocyte culture) (Wang, S.R. (1002) 302)

Lipoprotein transport
LDL; Lipoprotein; Tumor; LDL receptor; (Mouse) (Lombardi, P. (1003) 301)

Lipoprotein uptake
HDL; In situ perfusion; (Rat) (Azhar, S. (1004) 61)

Liposomal amphotericin B
Amphotericin B; Phase transition; Freeze-etch; Electron microscopy; ESR (Grant, C.W.M. (984) 11)

Liposome
Tricarboxylate carrier; Membrane transport; Reconstitution; Mitochondrion; (Rat liver) (Bisaccia, F. (977) 171)

Dicarboxylate carrier reconstitution; Enzyme kinetics; Mitochondrion; (Rat liver) (Indiveri, C. (977) 187)

Dicarboxylate carrier mechanism; Enzyme kinetics; Substrate inhibition; Mitochondrion; (Rat liver) (Indiveri, C. (977) 194)

Hemoglobin; Octyl glucoside; Octyltetraoxyethylene; Blood surrogate; (Human blood) (Jopski, B. (978) 79)

Crystal protein; δ-Endotoxin; Phospholipid; (*B. thuringiensis aizawai*) (Haider, M.Z. (978) 216)

Ultrasound; ESR; Phase transition; Deuterium oxide (Ma, L.D. (978) 283)

Superoxide dismutase; Electron spin resonance; Protein–membrane interaction; (Human erythrocyte) (Marcocci, L. (979) 99)

Transferrin; Phosphatidylethanolamine; Covalent coupling; Protein micelle (Afzelius, P. (979) 231)

Calcium ion transport; Mitochondrial lipid; Cardiolipin; Phosphatidylethanolamine; Arsenazo III (Kester, M.B. (980) 127)

Intracellular stability; Cholesterol; Gamma-ray perturbed angular correlation spectroscopy; PACS; (Kupffer cell) (Roerdink, F.H. (980) 234)

Doxorubicin; Pharmacokinetics; Drug delivery (Druckmann, S. (980) 381)

Reticuloendothelial system; Mononuclear phagocyte system; Ganglioside; Drug delivery; Sphingomyelin; (Mouse) (Allen, T.M. (981) 27)

Amphipathic alpha-helical peptide; Fusogen; Membrane fusion; Cationic peptide; Polymyxin B; Hydrophobic moment (Suenaga, M. (981) 143)

Adriamycin; Anthracycline; Phospholipid; Equilibrium binding; Fluorescence spectroscopy (Burke, T.G. (982) 123)

Polyene antibiotic; Amphotericin B; Calcium ion permeability; Large unilamellar vesicle; Cholesterol; Ergosterol; Arsenazo III (Ramos, H. (982) 303)

Photosensitizer; Porphyrin; Membrane–dye interaction; Fluorescence quenching; Spin label (Gross, E. (983) 118)

ATPase, Na^+/K^+-; Cation sidedness; Phosphorylation (Van der Hijden, H.T.W.M. (983) 142)

Cytochrome *P*-$450_{11\beta}$; Aldosterone synthesizing enzyme; Steroidogenesis; (Bovine adrenocortical mitochondria) (Ikushiro, S.-i. (984) 50)

Aluminum toxicity; Aluminum uptake (Akeson, M.A. (984) 200)

Organ specific opsonin; Opsonin; Macrophage; (Rat liver); (Rat spleen) (Moghimi, S.M. (984) 379)

Organ specific opsonin; Opsonin; Macrophage; Phagocytosis; (Rat liver); (Rat spleen) (Moein Moghimi, S. (984) 384)

Detergent; DNA; Transfection; (Mouse L-cell) (Pinnaduwage, P. (985) 33)

Cholesterol; Cholestenone; Phospholipid; Membrane; Fluorescent probe; Fluorescence anisotropy (Ben-Yashar, V. (985) 271)

Cytochrome *P*-450_{C21}; Cytochrome *P*-$450_{17\alpha,lyase}$; NADPH–cytochrome-*P*-450 reductase; Steroidogenesis (Kominami, S. (985) 293)

Glycosphingolipid; Ganglioside; Spin label; Freeze-etch; ESR (Mehlhorn, I.E. (986) 281)

Phosphatidylcholine; Cholesterol; 5-Hydroxyicosatetraenoic acid; 15(*S*)-Hydroxyicosatetraenoic acid; Permeability (Isaacson, Y. (986) 295)

Dipalmitoylphosphatidylcholine; Ascorbate oxidase; Protein–lipid interaction; Electron microscopy (Mossa, G. (986) 310)

Interferon; Poly(rI)·poly(rC); Antiviral chemotherapy; Monoclonal antibody; Drug targeting (Milhaud, P.G. (987) 15)

Tumor cytotoxicity; Muramyl dipeptide; Macrophage; (Rat liver) (Daemen, T. (991) 145)

Spin trapping; ESR; Lipid derived radical (Feix, J.B. (992) 230)

Phospholipase A_2; Protein inhibition; Lipid/water interface; Micelle; Protein stimulation; (Pancreas); (Bee venom) (Conricode, K.M. (1003) 36)

Antibody; Targeting; Ligand (Senior, J. (1003) 58)

Archaebacterium; NMR, ^1H-; Fast atom bombardment mass spectrometry; Membrane morphology (Yamauchi, K. (1003) 151)

Odorant; Olfactory response; Ion dependence; Membrane potential (Nomura, T. (1005) 260)

Gadolinium chloride; Macrophage blockade; Kupffer cell; Phagocytosis; (Rat hepatocyte) (Lázár, G. (1011) 97)

Phosphatidylserine; Phospholipid; Endocytosis; Macrophage; Lymphocyte; (Rat) (Mietto, L. (1013) 1)

Iron chelator; Desferrioxamine; Tumor cell; Erythroid differentiation; (Mouse) (Nastruzzi, C. (1013) 36)

Cat1; Superhyperfine structure; Oxygen concentration; ESR (Chan, H.-C. (1014) 141)

Liposome fusion
Cationic detergent; Biotin; Avidin; Chaotropic ion; Fluorescence energy transfer (Keren-Zur, M. (983) 253)

Liposome integrity
Proteoliposome; Wheat germ agglutinin; Adsorption; Glycophorin (Hutchinson, F.J. (987) 212)

Liposome leakage assay
Pteridine antifolate; Drug delivery; Drug metabolism (Ng, K.-y. (981) 261)

Liposome membrane
Glyceroglycolipid; Cholesterol; ESR (Naito, M. (985) 147)

Liposome preparation
Phosphatidylcholine, saturated; Extrusion; Large unilamellar vesicle (Nayar, R. (986) 200)

Liposome reconstitution
Reaction center; Cytochrome bc_1 complex; Cyclic electron transfer; Proton pumping; Photosynthesis; (*Rb. sphaeroides*); (*Rb. capsulatus*) (Crielaard, W. (974) 211)

Liposome size distribution
Proteoliposome; Photon correlation spectroscopy; Wheat germ agglutinin (Hutchinson, F.J. (978) 17)

Liposome stability
Targeting chemotherapy; Antitumor agent; Adriamycin; Cholesterol; Dipalmitoylphosphatidylcholine (Tomita, T. (978) 185)

Free fatty acid; Transition temperature (Crowe, J.H. (979) 7)

Cholesterol; Octyl glucoside; Plasma protein (Liu, D. (981) 254)

Glycophorin; Phosphatidylethanolamine; Wheat germ agglutinin (Pinnaduwage, P. (986) 106)

Liposome targeting
Mannose receptor; Kupffer cell; Macrophage; (Mouse) (Muller, C.D. (986) 97)

Lipoxin
RBL-1 cell; Ionophore A23187; fMet-Leu-Phe; Phorbol myristate acetate; 5-Lipoxygenase; 15-Lipoxygenase; (Rat) (Ng, C.F. (1004) 332)

7-*cis*-11-*trans*-Lipoxin A_4
Stereochemistry; Chemical synthesis; Biological activity (Nicolaou, K.C. (1003) 44)

Lipoxygenase
Lipid peroxidation; Monoamine oxidase; (Rat liver) (Wiesner, R. (986) 11)

Fatty acid metabolism; Chiral phase HPLC; GC-MS; Prostasome; (Male fertility); (Human) (Oliw, E.H. (1002) 283)

Leukotriene B; Fatty acid; (Blood cell); (Rainbow trout) (Pettitt, T.R. (1003) 1)

Cyclooxygenase; Prostaglandin; Leukotriene (Holtzman, M.J. (1003) 204)

5-Hydroxyicosatetraenoic acid; Arachidonic acid metabolism; Mollusc; Pelecypoda; (*L. subrostrata*) (Hagar, A.F. (1005) 162)

5-Lipoxygenase
Lipoxin; RBL-1 cell; Ionophore A23187; fMet-Leu-Phe; Phorbol myristate acetate; 15-Lipoxygenase; (Rat) (Ng, C.F. (1004) 332)

Unsaturated fatty acid metabolism; (Basophilic leukemia cell); (Rat) (McMillan, R.M. (1005) 170)

Vitamin E; α-Tocopherol; Polymorphonuclear leukocyte; Arachidonic acid release; Phospholipase A_2; (Rat) (Chan, A.C. (1005) 265)

12-Lipoxygenase
Hydroxyicosatetraenoic acid; Enantiomer; Stimulus-response coupling (Turk, J. (1001) 16)

15-Lipoxygenase
Lipoxin; RBL-1 cell; Ionophore A23187; fMet-Leu-Phe; Phorbol myristate acetate; 5-Lipoxygenase; (Rat) (Ng, C.F. (1004) 332)

Lipoxygenase mechanism
pH effect; Linoleic acid hydroperoxide; (*Glycine max*) (Gardner, H.W. (1001) 274)

Lipoxygenase product
Arachidonic acid; (Phagocyte) (Serhan, C.N. (1004) 158)

Liquid crystal
Alkyl pyranoside; *n*-Octyl 1-*O*-β-D-glucopyranoside; Phase behavior; X-ray diffraction (Chung, Y.J. (985) 300)

Lithium ion
Myogenesis; polyphosphatidylinositol; Cell–cell recognition; Differentiation; Inositol (Hausman, R.E. (1013) 92)

Lithium ion transport
Cell volume; Actin, F-; Potassium induced swelling; Potassium ion flux (Kleinzeller, A. (1014) 40)

Lithocholate metabolism
Bile salt; Bile salt sulfate; (Rat hepatocyte) (Galle, P.R. (1003) 250)

Lithocholic acid
Bile acid secretion; (Rat) (Takikawa, H. (1004) 147)

Lithogenic index
Cholesterol gallstone; Gallstone; HMG-CoA reductase; Enzyme inhibition; Hyperlipidemia; (Hamster) (Koide, K. (1005) 65)

Liver
Cholesterol; Bile; Cholesterol transport; Lipoprotein (Robins, S.J. (1004) 327)

Liver cell
Chloride distribution; Membrane potential (Nobes, C.D. (987) 115)

Liver cell culture
Bile acid synthesis; Cytochrome *P*-450; (Rabbit); (Hepatocyte) (Whiting, M.J. (1001) 176)

Liver glycogen-synthase phosphatase
Nucleoside triphosphate regulation; Glycogen synthase activation; Glycogen particle enzyme (Gilboe, D.P. (991) 340)

Liver lipase
Metabolic zonation; Lipase; (Rat hepatocyte) (Verhoeven, A.J.M. (1001) 239)

Liver membrane
α_2-Macroglobulin; α_1-Inhibitor 3; α_2-Macroglobulin receptor; (Rat) (Gliemann, J. (980) 326)

Liver metabolism
Scavenger receptor; Maleylated bovine serum albumin; Acetylated LDL; Macrophage; Endocytosis; Receptor-mediated endocytosis; (Rat) (Takata, K. (984) 273)

Liver microsome
Proalbumin processing; Proalbumin Christchurch; α_1-Antitrypsin Pittsburgh; KEX2 proteinase; (Yeast); (Chicken) (Peach, R.J. (990) 276)

Liver plasma membrane
Infrared spectroscopy; Ethanol; Membrane order; Interdigitated lipid chain (Lewis, E.N. (986) 161)

Liver regeneration
Ornithine decarboxylase; mRNA accumulation; (Rat); (Mouse) (Hirvonen, A. (1007) 120)

Thymidylate synthetase; Thymidine kinase; Colchicine; Vincristine; (Rat) (Tsukamoto, I. (1009) 191)

Glucose-regulated gene (grp78); hsp70 gene family; Acute phase response; (Rat liver) (Krawczyk, Z. (1009) 237)

LMM
Myosin; Mg·ATP; Assembly (Chowrashi, P.K. (997) 182)

Local anesthetic
Tetracaine; Glyceroglycolipid; NMR, ^{2}H- (Auger, M. (981) 351)

Phase transition; Partition coefficient; Surface charge; Dimyristoylphosphatidic acid; Phospholipid vesicle (Kaminoh, Y. (987) 63)

Localization
Calcium activated neutral proteinase; Proteinase; Crosslinking; Erythrocyte membrane (Sakai, K. (985) 51)

Long chain base
Sphingoid; Sphingosine; Stratum corneum; Sphingolipid; (Pig epidermis) (Wertz, P.W. (1002) 213)

Long chain fatty acids
Fatty acid uptake; Fatty acid metabolism; Arrhenius relationship; (Ascite tumor cell) (Haeffner, E.W. (1005) 27)

Long interspersed repeat (L1)
LINE 1; Nucleic acid sequence, location in genome; (Rat) (White, J.W. (1009) 287)

Long terminal repeat
Nucleosome reconstitution; Plasmid DNA; (Chicken histone); (Moloney murine leukemia virus LTR) (Kimura, T. (1007) 318)

Lossen reaction
Mechanism based inhibition; Proteinase; Diacylhydroxylamine (Demuth, H.-U. (996) 19)

Low affinity receptor
Cholecystokinin peptide; High affinity receptor; Cholecystokinin receptor; CCK-JMV-180; (Pancreatic acinus) (Stark, H.A. (1010) 145)

Low-conductance state
Skeletal muscle; Patch clamp; Potassium ion channel; (Mouse) (Weik, R. (983) 127)

Low temperature
Electron transfer; Energy transfer; Reaction center; Triplet formation; (*H. chlorum*) (Smit, H.W.J. (973) 212)

Energy transfer; Excitation annihilation; Antenna complex; (*R. rubrum*) (Deinum, G. (976) 63)

LRP promoter
LDL; Lipoprotein receptor; Promoter; Apolipoprotein E receptor (Kütt, H. (1009) 229)

Luciferase
ATP synthesis; Coupling factor; Membrane reconstitution; Proton gradient; (*R. rubrum*) (Slooten, L. (976) 150)

Luciferase gene
recombinant DNA; DNA; Shuttle plasmid; Luminescence; Gene expression; (*V. harveyi* gene); (*B. subtilis*); (*E. coli*) (Karp, M. (1007) 84)

Lucifer yellow-lipid conjugates
Fluorescent lipid; Fluorescent probe; Phospholipid; Sterol; Membrane probe; Lateral diffusion (Nothnagel, E.A. (980) 209)

Luminal membrane vesicle
D-Imino acid uptake; Sodium ion dependence; Electrogenic reaction; D-Proline; Hydroxy-D-proline; Proximal tubule; (Rabbit kidney) (Røigaard-Petersen, H. (984) 231)

Luminescence
S state; Q_A acceptor; Photosystem II (Sundblad, L.-G. (973) 47)

Electron transport; Photosynthesis; Electric field effect; (*H. chlorum*) (Vos, M.H. (973) 163)

recombinant DNA; DNA; Shuttle plasmid; Luciferase gene; Gene expression; (*V. harveyi* gene); (*B. subtilis*); (*E. coli*) (Karp, M. (1007) 84)

Luminol
Superoxide dismutase; Cytochrome *c*; Chemiluminescence; Xanthine oxidase (Radi, R.A. (994) 89)

Lung development
Collagen crosslinking; Collagen biosynthesis; (Rat) (Last, J.A. (990) 182)

Epidermal growth factor; Fetal lung; Fibroblast pneumocyte factor; Pulmonary surfactant (Nielsen, H.C. (1012) 201)

Lung surfactant
cDNA; mRNA; Type II cell (Emrie, P.A. (994) 215)

SP-C; Nucleotide sequence; Amino acid sequence; Type II cell; Species homology; Surfactant protein (Fisher, J.H. (995) 225)

Type II cell; Acyl-CoA species; Glycerol 3-phosphate acylation; (Rat lung) (Den Breejen, J.N. (1002) 277)

Fatty acid; Phosphatidylcholine; Phosphatidylglycerol; Dexamethasone; Fetal lung maturation; (Fetal rat lung) (Xu, Z.-x. (1005) 209)

Phospholipid metabolism; Lamellar body; (Rabbit lung) (Lewis, J. (1005) 277)

mRNA; Fatty-acid synthase; Acetyl-CoA; ATP citrate lyase; Malic enzyme; (Rat lung) (Batenburg, J.J. (1006) 329)

Lung tissue
Surfactant apoprotein; Alveolar permeability; (Rabbit) (Snyder, J.M. (1002) 1)

Luteinizing hormone/human chorionic gonadotropin receptor
Cholesteryl ester; NMR, ^{1}H-; Membrane fluidity (Kolena, J. (979) 279)

Lutropin biosynthesis
Gonadotroph primary culture; Castanospermine; Swainsonine; Oligosaccharide, *N*-linked; (Rat) (Hattori, M.-a. (992) 272)

LY146032
Lipopeptide antibiotic; A21978C; Calcium dependence; Daptomycin; Dimyristoylphosphatidylcholine (Lakey, J.H. (985) 60)

Lymph
Lipoprotein metabolism; Apolipoprotein A-IV; Plasma; (Rat) (Ghiselli, G. (1006) 26)

Lymph flow rate
Nephrotic syndrome; Hyperlipoproteinemia; Chylomicron synthesis; Triacylglycerol; Intestinal apolipoprotein; (Rat) (Levy, E. (1005) 20)

Lymphoblastoid cell
Cell proliferation; High density lipoprotein; Virus transformed cell; (Human) (Favre, G. (1013) 118)

Lymphocyte
Membrane; Freeze-fracture; Immunocytochemistry; (Human lymphocyte) (Pavan, A. (978) 158)

Carnitine; Mononuclear phagocyte; Acylcarnitine; (Human) (Cress, A.P. (992) 135)

Monoamine oxidase; Granulocyte; Inhibitor sensitivity; Kinetic constant; Pargyline binding; (Human) (Dolors Balsa, M. (992) 140)

Calcium ion, intracellular; Muscular dystrophy; (Human lymphocyte) (Mechler, F. (1012) 227)

Phosphatidylserine; Phospholipid; Liposome; Endocytosis; Macrophage; (Rat) (Mietto, L. (1013) 1)

Lymphocyte activation
Mitogenesis; Hormone receptor; Calcium ion; Calcium ionophore; Ionomycin; Calmodulin (Jy, W. (983) 153)

Eukaryotic differentiation; Mitogen stimulation; Poly(ADP-ribose) polymerase; Northern blotting; (Human) (McNerney, R. (1009) 185)

Lymphocyte, B
G protein; Transmembrane signalling; Surface immunoglobulin; Phospholipase C; Inositol phospholipid (Monroe, J.G. (1013) 273)

Lymphocyte maturation
Cytochrome *c* oxidase; mitochondrial RNA; Northern blot (Bustelo, X.R. (977) 341)

Lymphocyte proliferation
Purine metabolism; IMP dehydrogenase; Pyrimidine metabolism; CTP synthetase; (Human) (Marijnen, Y.M.T. (1012) 148)

Lymphokine
Interleukin; Gene expression; Glycosylation; Amino terminal protein sequence; (Monkey kidney cells); (Murine interleukin gene) (Ramanathan, L. (1007) 283)

Lyotropic phase behavior
Phosphatidylcholine; Dehydration; Freezing (Lynch, D.V. (984) 267)

Lysine
Amino acid transport; Basic amino acid transport; Alanine; Sodium ion dependence; System y^+; (Guinea pig placenta) (Wheeler, C.P.D. (978) 257)

α-Aminoadipic acid; Penicillin biosynthesis; Amino acid compartmentation; (*P. chrysogenum*) (Hönlinger, C. (993) 204)

Cytochrome $P\text{-}450_{SCC}$; Succinic anhydride; Chemical modification (Adamovich, T.B. (996) 247)

Pancreatic lipase; Active site; Acyl enzyme (Kaimal, T.N.B. (999) 331)

L-Lysine
Amino acid transport; Yeast; (*S. pombe*) (Sychrová, H. (978) 203)

Lysine: N^6-hydroxylation
Vesicle; Protonophore (Goh, C.J. (990) 240)

Lysine *N*-methyltransferase
Yeast; Ribosomal protein; Protein methylation (Lobet, Y. (997) 224)

Lysine residue
Glutamate dehydrogenase; Diethyl pyrocarbonate; Chemical modification; (*C. pyrenoidosa*) (Shatilov, V.R. (994) 222)

Plasminogen; Heparin binding (Soeda, S. (999) 29)

Lysis
Chromaffin granule; Adhesion; Hyperosmotic relaxation lysis; Intragranular vesicle; Freeze-fracture (Engel, J. (985) 111)

Lysolipid
Sugar transport; Lipid–protein interaction; Erythrocyte membrane; (Human) (Naderi, S. (985) 173)

Lysophosphatidic acid
Platelet; Thrombin; Phospholipase A_2; (Human) (Gerrard, J.M. (1001) 282)

Lysophosphatidylcholine
Phosphatidylcholine metabolism; Glycerophosphocholine synthesis; 1- and 2-Acyllysophosphatidylcholine (Morash, S.C. (1004) 221)

Phosphatidylcholine metabolism; Phospholipase A; Ethanol; Vitamin E; (Rat heart) (Choy, P.C. (1005) 225)

Acyl-CoA; Coenzyme A; Heart muscle microsome; Phosphatidylcholine; Transacylase (Sanjanwala, M. (1006) 203)

Lysophosphatidylinositol monophosphate
Fusion; Polyphosphoinositide; Phosphatidylinositol; Membrane (Wheeler, J.J. (984) 33)

Lysophospholipid
Calcium ion transport; Phospholipase A_2; (Rat liver mitochondria) (Lenzen, S. (982) 140)

Lysophospholipid acyltransferase
Proliferation; Phosphatidylcholine; Fatty acid composition; Phospholipid metabolism; Isoproterenol; (Rat submandibular gland) (Yashiro, K. (1005) 56)

Lysosomal enzyme
Peritonitis; Purification; Sphingomyelinase (Quintern, L.E. (1003) 121)

Acid ceramidase; Farber disease; Sphingomyelinase; Glycosphingolipid hydrolase; (Human spleen) (Al, B.J.M. (1004) 245)

Lysosomal fraction
Myelin body; Gentamicin treatment; (Rat kidney cortex) (Nässberger, L. (984) 365)

Lysosomal hydrolase
Endothelial cell; Agonist; Vascular cell; (Human) (Morgan, D.M.L. (1010) 184)

Lysosomal membrane
Cystine efflux; Sialic acid; Stearylamine; (Rat liver) (Jonas, A.J. (984) 257)

Lysosomal transport
Amino acid transport; System x_{AG}^-; Anionic amino acid (Collarini, E.J. (987) 139)

Amino acid transport; System L; System T (Stewart, B.H. (987) 145)

Lysosome
ATPase, H^+-; Subunit structure; Vacuolar ATPase (Moriyama, Y. (980) 241)

Ceroid lipofuscinosis; Batten's disease; Dolichyl phosphate; Dolichyl pyrophosphoryl oligosaccharide; (Sheep) (Hall, N.A. (993) 245)

β-Glucosidase; Gaucher disease; Subunit coupling; Irradiation; Radiation inactivation; Triton X-100 (Maret, A. (996) 254)

Lysosome protein
Phospholipase A_1; Triacinyl dye; Hydrophobic interaction chromatography; (Rat liver) (Löffler, B.-M. (1003) 225)

Lysozyme
Apocytochrome *c*; Cytochrome *c*; Polylysine; Peripheral protein; Spin label; ESR (Sankaram, M.B. (986) 315)

Electrostatic interaction; Protein ionization; Theoretical model (Spassov, V.Z. (999) 1)

M

α_1-Macroglobulin
Cysteine proteinase, high molecular weight ATP activation; Skeletal muscle; (Rat) (Dahlmann, B. (991) 253)

α_2-Macroglobulin
α_1-Inhibitor 3; α_2-Macroglobulin receptor; Liver membrane; (Rat) (Gliemann, J. (980) 326)

Proteinase inhibitor; Elastin; Elastase; (Human pancreas) (Laurent, P. (994) 285)

Macroglobulin, α_2M
Protein dissociation; Protein conformation; Electron microscopy (Pochon, F. (996) 132)

α_2-Macroglobulin receptor
α_2-Macroglobulin; α_1-Inhibitor 3; Liver membrane; (Rat) (Gliemann, J. (980) 326)

Macropain
Multicatalytic proteinase; Proteinase; Latent form; (Human erythrocyte) (McGuire, M.J. (995) 181)

Macrophage
Amino acid transport; Leukemia cell; Differentiation; Lipopolysaccharide; (Mouse) (Sato, H. (983) 259)

Scavenger receptor; Maleylated bovine serum albumin; Acetylated LDL; Liver metabolism; Endocytosis; Receptor-mediated endocytosis; (Rat) (Takata, K. (984) 273)

Organ specific opsonin; Opsonin; Liposome; (Rat liver); (Rat spleen) (Moghimi, S.M. (984) 379)

Organ specific opsonin; Opsonin; Liposome; Phagocytosis; (Rat liver); (Rat spleen) (Moein Moghimi, S. (984) 384)

Liposome targeting; Mannose receptor; Kupffer cell; (Mouse) (Muller, C.D. (986) 97)

Tumor cytotoxicity; Muramyl dipeptide; Liposome; (Rat liver) (Daemen, T. (991) 145)

Arachidonic acid; 12-Hydroxyicosatetraenoic acid; (Foam cell) (Mathur, S.N. (1001) 50)

Lipoprotein lipase; Bone marrow macrophage; Colony stimulating factor; (Mouse) (Goldman, R. (1001) 120)

Actin; Cytoskeletal assembly; Phorbol ester (Hartwig, J.H. (1010) 64)

Protein kinase C; cyclic AMP; Cell spreading; Electron microscopy; (Mouse cell line) (Petty, H.R. (1012) 284)

Phosphatidylserine; Phospholipid; Liposome; Endocytosis; Lymphocyte; (Rat) (Mietto, L. (1013) 1)

Macrophage blockade
Gadolinium chloride; Liposome; Kupffer cell; Phagocytosis; (Rat hepatocyte) (Lázár, G. (1011) 97)

Macrophage colony stimulating factor
Protein p68; Growth factor; Protein kinase C; Platelet derived growth factor; Insulin; (Placental syncytiotrophoblast) (Kenton, P. (1014) 271)

Macrophage lysosome
Bis(monoacylglycero)phosphate; Transacylase (Huterer, S.J. (1001) 68)

Macrophage recognition
Periodate oxidation; Disulfide formation; Sulfhydryl oxidation; Diamide; (Erythrocyte membrane) (Beppu, M. (979) 35)

Macrophage stimulation
Acetylated low density lipoprotein receptor; Atherosclerosis; LDL; Lipoprotein acetylation; Scavenger receptor (Leake, D.S. (1005) 196)

Magainin
Vertebrate peptide antibiotics; Free energy transduction; Membrane potential; Mitochondrial oxidative phosphorylation; Uncoupler; PGLa; (*X. laevis*) (Westerhoff, H.V. (975) 361)

Magainin 1
Membrane permeability; Lipid charge; Binding isotherm; Secondary structure (Matsuzaki, K. (981) 130)

Magnesium
Erythrocyte; Phosphoribosylpyrophosphate synthetase; Pyrimidine nucleotide; Pyrimidine 5′-nucleotidase deficiency (Lachant, N.A. (994) 81)

Magnesium atomic absorption spectroscopy
Chlorophyll determination; Chlorophyll a/b ratio; Correction factor; Arnon equation (Porra, R.J. (975) 384)

Magnesium deficiency
Cell membrane fatty acid; Fatty acid; Essential fatty acid; Desaturase; (LLC-PK cell) (Mahfouz, M.M. (1006) 70)

Cellular membrane phospholipid; Phospholipid *N*-methyltransferase; Calcium uptake; Intracellular calcium; (LLC-PK cell) (Mahfouz, M.M. (1006) 75)

Magnesium efflux
pnd^+ gene; Nucleotide sequence; Gene expression; RNA degradation; (*E. coli*) (Sakikawa, T. (1007) 158)

Magnesium ion
ATPase, H^+-; Lipid–protein interaction; Protein conformation; Lipid fluidity (Zhang, X.F. (976) 53)

ATPase, Na^+/K^+-; Sodium pump; Kinetics; Potassium ion (Rossi, R.C. (981) 105)

Magnesium ion complex
Phosphatidylserine; Unsaturated fatty acid chain; Hydration; Fourier transform infrared spectroscopy; NMR, ^{31}P- (Casal, H.L. (982) 228)

Magnesium ion, intracellular
NMR, ^{31}P-; Hexokinase deficiency; Pyruvate kinase deficiency; (Human red blood cell) (Ouwerkerk, R. (1010) 294)

Sodium ion, intracellular; Calcium ion, intracellular; Reticulocyte; Erythrocyte; (Guinea pig blood) (Jelicks, L.A. (1012) 261)

Magnetic field effect
Reaction center; Photosynthesis; Bacterial photosynthesis; Delayed fluorescence; (*Rb. sphaeroides*) (Goldstein, R.A. (977) 70)

Reaction center; Photosynthesis; Bacterial photosynthesis; Delayed fluorescence; (*Rb. sphaeroides*) (Goldstein, R.A. (977) 78)

Phosphatidylcholine monolayer; Lateral protonic conduction; Orientational effect (Sakurai, I. (985) 347)

Malaria
Phosphatidylcholine biosynthesis; Choline metabolite; Kennedy pathway; (*P. knowlesi*); (Monkey erythrocyte) (Ancelin, M.L. (1001) 82)

Malate dehydrogenase
NADH; Time resolved fluorescence; Fluorescence polarization (Jameson, D.M. (994) 187)

Maleylated bovine serum albumin
Scavenger receptor; Acetylated LDL; Liver metabolism; Macrophage; Endocytosis; Receptor-mediated endocytosis; (Rat) (Takata, K. (984) 273)

Malic enzyme
Transcription; mRNA; Insulin; Nutrient: (Rat) (Katsurada, A. (1004) 103)

Lung surfactant; mRNA; Fatty-acid synthase; Acetyl-CoA; ATP citrate lyase; (Rat lung) (Batenburg, J.J. (1006) 329)

Malignancy
NMR; Lipoprotein; Lipemia (Verdery, R.B. (1006) 287)

Malignant hyperthermia
Membrane fluidity; ESR (Ervasti, J.M. (986) 70)

Malonyl-CoA
Carnitine palmitoyltransferase I; Ethanol; Acetaldehyde; (Rat hepatocyte) (Guzmán, M. (1002) 405)

Mammary carcinoma
Metalloproteinase; Enzyme purification; Carcinoma; (Rat) (Nethery, A. (993) 42)

Mammary epithelia
Glycoprotein; Polymorphism; Milk fat globule membrane; (Human); (Cow); (Chimpanzee); (Horse) (Patton, S. (980) 333)

Mammary explant
Casein degradation; Autocrine control; Milking efficiency; (Goat) (Wilde, C.J. (992) 315)

3,4-Mandeloquinone
3,4-Dihydroxymandelic acid; Tyrosinase; Oxidative decarboxylation; Quinone methide; Pulse radiolysis (Bouheroum, M. (998) 57)

Manganese
Photosynthesis; Histidine; Oxygen evolution; D1 protein; (Wheat) (Tamura, N. (973) 281)

Electron spin echo spectroscopy; Spin lattice relaxation time; Photosystem II; Oxygen evolution (Evelo, R.G. (973) 428)

Photosynthesis; Oxygen evolution; ESR (Andréasson, L.-E. (973) 465)

Photosynthesis; Oxygen evolution; D1 protein; Histidine; *Scenedesmus* mutant (LF-1) (Seibert, M. (974) 185)

Divalent cation; Nitrate uptake; Glutamine synthetase; Enzyme regulation; (*A. chroococcum*) (Ruiz, M.T. (993) 36)

Manganese complex
Calcium ion; Photosystem II; Water oxidation; Photoactivation; (Wheat) (Tamura, N. (976) 173)

Manganese enzyme
Superoxide dismutase; Precursor enzyme; Posttranslational processing; cDNA (Wispe, J.R. (994) 30)

Manganese multiline
ESR Signal II_s; g tensor (= 4.1); Charge recombination; Activation energy; (Spinach) (Inui, T. (973) 147)

Mannose receptor
Liposome targeting; Kupffer cell; Macrophage; (Mouse) (Muller, C.D. (986) 97)

Mannosyltransferase
Mitochondrial outer membrane; Dolichyl monophosphate; (Mouse liver) (Gasnier, F. (980) 339)

Marsupial
Insulin; Amino acid sequence; (Kangaroo) (Treacy, G.B. (990) 263)

Mass spectrometry
Filamentous cyanobacterium; Photosystem II; Respiration; Hydrogen peroxide; (*O. chalybea*) (Bader, K.P. (974) 303)

19-Hydroxyprostaglandin $F_{2\alpha}$; Cytochrome *P*-450; Seminal fluid; Prostaglandin hydroxylase; (Human) (Oliw, E.H. (1001) 107)

Inositol phosphate; NMR (Palmer, S. (1014) 239)

Mast cell
PAF; Acetyl hydrolase (Triggiani, M. (1006) 41)

Mastocytoma
cyclic AMP; c-*fos*; c-*myc*; Gene expression; Differentiation; (Mouse cell) (Goulding, M.D. (1007) 99)

Mastocytoma cell
cyclic AMP; Calcium ion; Cell growth; (Mouse) (Lints, T. (1013) 287)

Mastoparan
Phospholipase C; Phospholipid hydrolysis; Phosphatidylinositol 4,5-bisphosphate (Wallace, M.A. (1006) 311)

Maternal mRNA
Protein phosphorylation; mRNA binding protein; Oocyte; (*Xenopus laevis*) (Cummings, A. (1014) 319)

Mathematical modeling
Membrane enzyme; Phospholipid vesicle; Enzyme kinetics; Kinetic constant; Partition constant (Heirwegh, K.P.M. (995) 151)

Maxicircle
RNA editing; Kinetoplast DNA; DNA; Minicircle; Transcription; (Trypanosome mitochondria) (Benne, R. (1007) 131)

MCD
Cytochrome c_4; Redox property; NMR; ESR; (*A. vinelandii*) (Gadsby, P.M.A. (994) 37)

Mebendazole
Colchicine; Microtubule inhibition; Nematode; Tubulin; (*C. elegans*) (Russell, G.J. (993) 233)

Mechanical force
Cartilage; Epiphyseal plate; Glycosaminoglycan biosynthesis; Protein biosynthesis (Gray, M.L. (991) 415)

Mechanical stress
Inositol phosphate; cyclic AMP; (Mouse osteoblast) (Sandy, J.R. (1010) 265)

Mechanism based inhibition
Proteinase; Lossen reaction; Diacylhydroxylamine (Demuth, H.-U. (996) 19)

Medium composition
Protein binding; Retinoid; Sertoli cell; (Rat) (Galdieri, M. (1011) 168)

Melanin-copper complex
Adrenaline melanin; Dopamine melanin; Pyrolysis GC-MS; Infrared ESR; Catecholamine (Stępień, K.B. (997) 49)

Melanin pigmentation
Furocoumarin; Psoralen; Angelicin; Glutathione; Photooxidation; Ultraviolet irradiation; Oxygen radical (D'Ischia, M. (993) 143)

Melanin synthesis
Tyrosinase; Nucleotide sequence; Albinism; (Human Liver) (Kikuchi, H. (1009) 283)

Melanogenesis
Dihydroxyindole oxidation; Dihydroxyindole radical; Indolequinone; Pulse radiolysis (Lambert, C. (993) 12)

Melanoma
Metallothionein; Copper(I) thiolate; Copper increase; ELISA; Immunoblot; (Horse) (Krauter, B. (1013) 212)

Melittin
Phospholipid bilayer; Protein–membrane interaction; Kinetics; Thermodynamics (Schwarz, G. (979) 82)

Phospholipid mixture; Phase separation; Lipid–protein interaction; Fluorescence; Raman spectroscopy (Lafleur, M. (980) 85)

Band 3 protein; Polylysine; Zinc ion; Erythrocyte membrane; Aggregation (Clague, M.J. (980) 93)

Protein–lipid interaction; Protein aggregation; Boundary lipid; DSC (Bradrick, T.D. (982) 94)

Gramicidin S; Surfactant; Membrane permeability; Phospholipid release; Cell shape (Katsu, T. (983) 135)

Phospholipid; *n*-Alcohol; Permeability; NMR; Vesicular membrane (Kaszuba, M. (985) 106)

Ascorbate; Fluorescence quenching; Protein conformation (Meucci, E. (999) 58)

Membrane
Calcium binding protein; (Ehrlich ascites tumor cell) (Kristensen, B.I. (978) 72)

Lymphocyte; Freeze-fracture; Immunocytochemistry; (Human lymphocyte) (Pavan, A. (978) 158)

Micellar enzymology; Enzyme; Reversed micellar system (Martinek, K. (981) 161)

Anesthesia; Ethanol; Fluorescence; Temperature (Hitzemann, R.J. (983) 205)

Erythrocyte shape; ATP; Zwitterion; Ionic strength; (Human) (Raval, P.J. (983) 230)

Fusion; Polyphosphoinositide; Lysophosphatidylinositol monophosphate; Phosphatidylinositol (Wheeler, J.J. (984) 33)

Cholesterol; Cholestenone; Phospholipid; Liposome; Fluorescent probe; Fluorescence anisotropy (Ben-Yashar, V. (985) 271)

Ion channel; Diffusion; Electrophoresis; Neuromuscular junction; Morphogenesis (Fromherz, P. (986) 341)

Membrane behavior, non-linear
Electrorotation; Transmembrane potential; Phase difference; Membrane modification (Fuhr, G. (980) 1)

Membrane bilayer
Phase transition; Myelin basic protein; Bilayer stabilization (Fraser, P.E. (983) 23)

Membrane binding
Polyene antibiotic; Membrane fluidity; Fluorescence probe; Thymocyte; Fluorescence anisotropy (Henry-Toulmé, N. (982) 245)

Calpastatin; Phospholipid; Biologic membrane; Calpain; Calcium dependent proteolysis (Mellgren, R.L. (999) 71)

Membrane biogenesis
Intracytoplasmic membrane; Lipopolysaccharide; Protein export; *secA* gene; (*E. coli*) (De Cock, H. (985) 313)

CHO cell mutant; Phosphatidylserine; Phosphatidylethanolamine; Sindbis virus; Membrane fusion (Kuge, O. (986) 61)

Membrane bound enzyme
Alkalophile; ATPase (Koyama, N. (980) 255)

Enzyme kinetics; Amphiphilic substrate; Enzyme purification; Acyl-CoA; Acyl-CoA elongase (Bessoule, J.-J. (983) 35)

Neutrophil; NADPH oxidase; Membrane structure; Cytoskeleton; Oxygen burst; Superoxide generation (Quinn, M.T. (987) 83)

Phosphate assay; HPLC; Microsome; Purine; Pyrimidine; ATPase (Missiaen, L. (990) 40)

Membrane bound hydrogenase
Hydrogen evolution; ATP productivity; pH dependence; NAD; (*E. aerogenes*) (Tanisho, S. (973) 1)

Membrane capacitance
Dielectric behavior; (Mouse lymphocyte); (Mouse erythrocyte) (Asami, K. (1010) 49)

Membrane capacity
In vitro fertilization; Fertilization; Single cell rotation; Microvilli; Membrane resistivity; Electrorotation; (Zona pellucida) (Arnold, W.M. (979) 142)

Membrane carbohydrate
Glycolipid headgroup; NMR, ^{2}H- (Carrier, D. (983) 100)

Membrane channel protein
VDAC protein; Mitochondrial membrane; Mitochondrial porin; Membrane fusion; Protein crystallization (Mannella, C.A. (981) 15)

Membrane charge
Phospholipid transfer protein; Phosphatidylcholine; Phosphatidylinositol; Fluorescent phospholipid; Membrane fluidity; (Yeast) (Szolderits, G. (986) 301)

Membrane conductance
Lipid bilayer; Electric field effect; Dipolar interaction (Robello, M. (982) 173)

Membrane current
Sodium-calcium ion exchange; Stoichiometry; (Squid axon) (Caputo, C. (986) 250)

Membrane damage
Divalent cation; Proton; Calcium ion, extracellular; Hemolytic agent; Zinc ion, extracellular; Plasma membrane (Bashford, C.L. (983) 56)

Posterior subcapsular cataract; Retinitis pigmentosa; Lipid peroxidation; Lens fiber; Glutathione; Cataractogenesis; (Human) (Babizhayev, M.A. (1004) 124)

Membrane defect
Glycophorin; CD4; Erythrocyte; Membrane–protein interaction; pH effect (Arvinte, T. (981) 61)

Membrane degradation
Cysteine proteinase; Glomerular basement membrane; (Human); (Kidney cortex) (Thomas, G.J. (990) 246)

Membrane–dye interaction
Photosensitizer; Porphyrin; Liposome; Fluorescence quenching; Spin label (Gross, E. (983) 118)

Membrane enzyme
Mathematical modeling; Phospholipid vesicle; Enzyme kinetics; Kinetic constant; Partition constant (Heirwegh, K.P.M. (995) 151)

Membrane fatty acid binding protein
Fatty acid metabolism; Carrier mediated transport; Human hepatoma cell line (Stremmel, W. (1013) 218)

Membrane fluidity
ATP synthesis; CF_0/CF_1; Lipid packing; Monogalactosyldiacylglycerol; Transmembrane distribution (Rawyler, A. (975) 283)

Plasmalogen deficiency; Fluorescence anisotropy; Lipid mobility; (Human skin fibroblast) (Hermetter, A. (978) 151)

Luteinizing hormone/human chorionic gonadotropin receptor; Cholesteryl ester; NMR, ^{1}H- (Kolena, J. (979) 279)

Lipid–protein interaction; ESR; Brush-border membrane vesicle; Lipid composition; Dietary fatty acid; (Porcine small intestine) (Christon, R. (980) 77)

Spin label; Palmitoylcarnitine; (Human erythrocyte) (Watanabe, H. (980) 315)

Lindane; Insecticide–membrane interaction; Fluorescence polarization; Fluorescence probe; Cholesterol (Antunes-Madeira, M.C. (982) 161)

Polyene antibiotic; Membrane binding; Fluorescence probe; Thymocyte; Fluorescence anisotropy (Henry-Toulmé, N. (982) 245)

Lipid permeability; Microvillus membrane; Cholesterol; 7-Dehydrocholesterol; (Rat) (Meddings, J.B. (984) 158)

Acetylcholine receptor; Neurotoxin binding site; Thermal denaturation; Structure–function correlation; Cholesterol (Artigues, A. (985) 325)

Malignant hyperthermia; ESR (Ervasti, J.M. (986) 70)

L-Carnitine; Palmitoylcarnitine; Spin label; Free fatty acid metabolism; Erythrocyte; (Human) (Kobayashi, A. (986) 83)

Phospholipid transfer protein; Phosphatidylcholine; Phosphatidylinositol; Fluorescent phospholipid; Membrane charge; (Yeast) (Szolderits, G. (986) 301)

Fanconi syndrome; Renal development; Succinylacetone; Tyrosinemia (Roth, K.S. (987) 38)

Phospholipase A_2; Interfacial catalysis; Substrate specificity; Nonspecific inhibitor; Bilayer (Jain, M.K. (1003) 91)

Dietary fatty acid; Fluorescence anisotropy; Platelet activation; Thromboxane; (Rat platelet) (Heemskerk, J.W.M. (1004) 252)

Fatty acid desaturase; Fatty acid composition; Lipid composition; Phytosterol; (Rat liver microsome) (Leikin, A.I. (1005) 187)

Cystinosis; Cystine translocation; Temperature sensitivity; (Human skin fibroblast) (Forster, S. (1013) 7)

Membrane fragment
Fluorescence polarization; Parinaric acid; Lipid state; Lipid bilayer vesicle; Freeze-thawing; (*E. coli*) (Souzu, H. (978) 105)

Membrane fusion
Cryo-electron microscopy; Vitrification; Lipidic particle; Sonicated vesicle (Frederik, P.M. (979) 275)

Poly(ethylene glycol); Glycocalyx structure; Volume exclusion; ESR; Freeze-fracture; (Human erythrocyte membrane) (Pratsch, L. (980) 146)

VDAC protein; Mitochondrial membrane; Mitochondrial porin; Protein crystallization; Membrane channel protein (Mannella, C.A. (981) 15)

Amphipathic alpha-helical peptide; Fusogen; Liposome; Cationic peptide; Polymyxin B; Hydrophobic moment (Suenaga, M. (981) 143)

Electrofusion; Erythrocyte; Storage dependence (Sowers, A.E. (985) 334)

Electrofusion; Erythrocyte ghost; (Human); (Rabbit) (Sowers, A.E. (985) 339)

CHO cell mutant; Phosphatidylserine; Phosphatidylethanolamine; Sindbis virus; Membrane biogenesis (Kuge, O. (986) 61)

Membrane lesion
Hemolysin; Invertebrate; Sphingomyelin; Complement; Polymerization; (Sheep erythrocyte); (Earthworm) (Roch, P. (983) 193)

Membrane modification
Electrorotation; Transmembrane potential; Phase difference; Membrane behavior, non-linear (Fuhr, G. (980) 1)

Membrane morphology
Liposome; Archaebacterium; NMR, ^{1}H-; Fast atom bombardment mass spectrometry (Yamauchi, K. (1003) 151)

Membrane order
Infrared spectroscopy; Liver plasma membrane; Ethanol; Interdigitated lipid chain (Lewis, E.N. (986) 161)

Membrane–peptide interaction
Alamethicin; Spin label; Voltage-dependent channel; Thylakoid; ESR (Wille, B. (986) 47)

Membrane permeability
Oxidative phosphorylation; Slip; Leak; Stoichiometry change (Murphy, M.P. (977) 123)

Voltage-sensitive dye; Diffusion potential; (Rat liver plasma membrane); (Basolateral vesicle); (Canalicular vesicle) (Thalhammer, T. (979) 371)

Magainin 1; Lipid charge; Binding isotherm; Secondary structure (Matsuzaki, K. (981) 130)

Outer mitochondrial membrane; Organic cation; VDAC (Mannella, C.A. (981) 363)

Gramicidin S; Melittin; Surfactant; Phospholipid release; Cell shape (Katsu, T. (983) 135)

Cryoprotection; Freeze-thaw damage, mechanical; Trehalose; Osmotic stress; (Spinach thylakoid) (Hincha, D.K. (987) 231)

Sulfonamide derivative; Calmodulin antagonist; ATP, external; (CHO cell) (Kitagawa, T. (987) 235)

pH, cytoplasmic; pH regulation; Proton pump; Intracellular buffering; (*D. discoideum*) (Inouye, K. (1012) 64)

Membrane perturbation
PAF; Ion channel formation (Sawyer, D.B. (987) 129)

Membrane potential
NADH : ubiquinone oxidoreductase; Proton transfer; Dicyclohexylcarbodiimide; Submitochondrial particle; (Bovine heart) (Vuokila, P.T. (974) 219)

Electrochromic absorbance change; Spectroscopy; ATP hydrolysis; (*Chlorella*) (Joliot, P. (975) 355)

Magainin; Vertebrate peptide antibiotics; Free energy transduction; Mitochondrial oxidative phosphorylation; Uncoupler; PGLa; (*X. laevis*) (Westerhoff, H.V. (975) 361)

Uncoupling; Fatty acid; Proton conductance; Mitochondrion (Schönfeld, P. (977) 266)

Drug–lipid interaction; Celiptium; Phosphatidylglycerol (Sautereau, A.M. (978) 276)

Nutrient bicarbonate effect; Thiocyanate inhibition; (*R. pipiens* gastric fundus) (Schwartz, M. (979) 299)

Neutrophil; Voltage gating; Sodium/potassium pump; (Human blood) (Majander, A. (980) 139)

Ion exchanger; Sodium chloride symport; Chloride conductance; (*R. pipiens* stomach) (Holloman, T.L. (980) 367)

Lipid–peptide interaction; Model peptide (De Kroon, A.I.P.M. (981) 371)

Microelectrode technique; Amphotericin B; Ion conductance; (*R. catesbeiana* cornea) (Carrasquer, G. (982) 73)

Proton efflux; Electrogenic proton pump; Potassium ion/proton cotransport; Microelectrode measurement; (*D. discoideum*) (Van Duijn, B. (983) 186)

Choline uptake; γ-Aminobutyric acid; *n*-Alcohol; Synaptosome; Synaptic plasma membrane (Mrak, R.E. (984) 97)

Channel selectivity; SITS; Chloride channel; Single-channel conductance; (*Drosophila*) (Yamamoto, D. (986) 187)

Glutathione transporter; Glutathione inhibitor; Brush-border membrane; (Rabbit small intestine) (Vincenzini, M.T. (987) 29)

Liver cell; Chloride distribution (Nobes, C.D. (987) 115)

Electrogenic proton pump; ATP; Proton efflux; (*P. polycephalum*) (Kuroda, H. (987) 154)

Model membrane; Cable equation; Black lipid membrane; Glycerol monooleate; Gramicidin (Fromherz, P. (987) 222)

Odorant; Olfactory response; Liposome; Ion dependence (Nomura, T. (1005) 260)

Membrane probe
Fluorescent lipid; Fluorescent probe; Phospholipid; Sterol; Lateral diffusion; Lucifer yellow-lipid conjugates (Nothnagel, E.A. (980) 209)

Propionic acid-diphenylhexatriene; Diphenylhexatriene; Fluorescence probe; Fatty acid; Fatty acid binding protein; Albumin (Trotter, P.J. (982) 131)

Membrane protein
Protein phosphorylation; Thylakoid; Prochlorophyte; State transition; (*P. hollandica*) (Van der Staay, G.W.M. (975) 317)

Bacteriochlorophyll binding protein; Amino acid sequence; Energy transfer; Proteoliposome chromatophore fusion (Tadros, M.H. (976) 161)

Protein sequence; Cytochrome, *b*-type; Secondary structure prediction; Histidine ligand; Heme (Degli Esposti, M. (977) 249)

Spin label; Rotational diffusion; ATPase, Na^+/K^+-; Saturation transfer ESR (Esmann, M. (978) 209)

Erythrocyte; Hemolysis; Thermal denaturation; Hyperthermia; DSC (Lepock, J.R. (980) 191)

Methotrexate; Methotrexate transport; Leukemia cell; Anion transport; Crosslinking (Jansen, G. (985) 266)

AP endonuclease; Microsomal receptor; Enzyme-receptor complex; Karyophilic protein; (Rat liver microsome) (Verly, W.G. (1008) 183)

Guanine nucleotide binding protein; Tissue distribution; (Human); (Rat) (Hinsch, K.-D. (1013) 60)

Membrane–protein interaction
Glycophorin; CD4; Erythrocyte; Flow cytometry; Immunoelectron microscopy (Arvinte, T. (981) 51)

Glycophorin; CD4; Erythrocyte; pH effect; Membrane defect (Arvinte, T. (981) 61)

Membrane protein-lipid vesicle
Phospholipid vesicle; Entrapment; Immobilization; (Human erythrocyte) (Wallstén, M. (982) 47)

Membrane protein skeletal network
Hemin; Erythrocyte membrane; ESR; Sialic acid motion; Protein–carbohydrate interaction (Wyse, J.W. (979) 121)

Membrane protein topography
Thylakoid membrane; Photosystem II; Cytochrome *b*-559; Immunocytochemistry; Monoclonal antibody (Vallon, O. (975) 132)

Membrane receptor
Dopamine D2 receptor; Affinity chromatography; Receptor purification; Photoaffinity labeling (Clagett-Dame, M. (986) 271)

Membrane receptor transfer
Electrofusion; Cell hybrid; (Human cell); (Rabbit tissue); (Somatic cell hybrid) (Grasso, R.J. (980) 9)

Membrane reconstitution
ATP hydrolysis; ATP synthesis; Coupling factor; Proteoliposome; ATPase, F_0F_1-; (*R. rubrum*) (Slooten, L. (975) 148)

ATP synthesis; Coupling factor; Proton gradient; Luciferase; (*R. rubrum*) (Slooten, L. (976) 150)

Glucose transporter; Glucose 6-phosphate; Dipeptide Cbz-Gly-Phe-NH_2; Metallo-endoproteinase substrate; Phenylarsine oxide; (Rat adipocyte); (Human erythrocyte) (Wheeler, T.J. (979) 331)

Membrane resistivity
In vitro fertilization; Fertilization; Single cell rotation; Microvilli; Membrane capacity; Electrorotation; (Zona pellucida) (Arnold, W.M. (979) 142)

Membrane splitting
Protein kinase C; Red blood cell; Tumor promoter; Diacylglycerol; Phorbol ester; 12-*O*-Tetradecanoylphorbol 13-acetate (Fisher, K.A. (982) 237)

Membrane structure
X-ray diffraction; Lipid bilayer; Peptide–lipid interaction; Dipalmitoylphosphatidylcholine; Alpha-helical peptide (Huschilt, J.C. (979) 139)

Neutrophil; NADPH oxidase; Cytoskeleton; Membrane bound enzyme; Oxygen burst; Superoxide generation (Quinn, M.T. (987) 83)

Membrane subunit
Mitochondrial mutant; ATPase, H^+-; (Yeast mitochondria) (Marzuki, S. (975) 222)

Membrane transport
Tricarboxylate carrier; Reconstitution; Liposome; Mitochondrion; (Rat liver) (Bisaccia, F. (977) 171)

Electromagnetic field; Metabolic effect; Protein synthesis; (Rat skin) (De Loecker, W. (982) 9)

ATPase, H^+-; Transport ATPase; Plasma membrane; Essential histidine; Histidine residue (Morjana, N.A. (985) 19)

Membrane vesicle
Sodium ion transport; (Lamb alveolar type II cell) (Butcher, P.A. (980) 50)

Photoaffinity labeling; *S*-(4-Azidophenacyl)glutathione; Glutathione *S*-transferase; Transport; (Rat liver) (Kunst, M. (982) 15)

Unilamellar vesicle; Cholesterol; Fluorescence polarization; NMR, ^1H-; NMR, ^{13}C-; Phospholipid bilayer (Bhakuni, V. (982) 216)

Transport; *S*-(2,4-Dinitrophenyl)glutathione uptake; ATP stimulation; (Rat liver) (Kunst, M. (983) 123)

Proximal tubule; Osmotic permeability; Reflection coefficient; Light scattering; (Rabbit kidney) (Van der Goot, F.G. (986) 332)

Membrane viscosity
Adenosine; Plasma membrane; Receptor display; Neutrophil (Cronstein, B.N. (987) 176)

Menadione
Calcium activated potassium ion channel; Potassium ion channel; Atebrin; Oxidoreductase; Lead; (Human erythrocyte) (Fehlau, R. (978) 37)

Mental retardation
Adenylosuccinase; Adenylosuccinate lyase; Purine metabolism; Succinylpurine; Autism; (Human) (Barshop, B.A. (999) 19)

Mercurial
Creatine kinase; Sulfhydryl group, essential; Chemical modification (Wu, H. (997) 78)

Mercury
Elemental mercury; Inorganic mercury; Blood; Exhalation; (Lung) (Magos, L. (991) 85)

Mercury chloride
Model membrane; Phospholipid–mercury interaction; Amine group, primary; Thermotropic effect; Phase transition (Delnomdedieu, M. (986) 191)

Toxicology; Calcium ion; Mitochondrion; Cell death; (Sea urchin egg) (Walter, P. (1012) 219)

Mercury ion
Calcium ion transport; Mitochondrial membrane (Chávez, E. (986) 27)

Merocyanine
Cell permeabilization; Ultraviolet irradiation; Flow cytometry; Photobleaching; FRAP; (Mouse spleen) (Szabo Jr., G. (979) 365)

Merocyanine 540
Echinocytosis; Microvesiculation; Erythrocyte membrane (Allan, D. (986) 115)

Mesophyll cell
Amino acid transport; ATP stimulation; Vacuole; Tonoplast; (Barley); (*H. vulgare*) (Dietz, K.-J. (984) 57)

Mesophyll protoplast
Asymmetrical breakdown; Electropermeabilization; Electrofusion; Protoplast (Mehrle, W. (978) 267)

Met-azido derivative
Hemoglobin A; Subunit assembly; NMR, H^+ (Yamamoto, Y. (996) 187)

Metabolic compartmentalization
Adenosine production; mitochondrial ATP/ADP-translocator; AMP transport; Acetate metabolism; (Rat heart) (Kiviluoma, K.T. (974) 274)

Metabolic effect
Electromagnetic field; Membrane transport; Protein synthesis; (Rat skin) (De Loecker, W. (982) 9)

Metabolic inhibitor
Enzyme release; Energy charge; Cell damage; ATP depletion; (Human embryonal lung fibroblast) (Kristensen, S.R. (1012) 272)

Metabolic pathway
Fluorouracil metabolism; NMR, ^{19}F-; (*E. coli*) (Lee, K.R. (1011) 12)

Metabolic regulation
Flux control coefficient; Enzyme elasticity (Barrett, J. (992) 369)

Metabolic zonation
Clofibrate; Carnitine acyltransferase; Periportal zone; Perivenous zone; (Rat hepatocyte) (Tosh, D. (992) 245)

Lipase; Liver lipase; (Rat hepatocyte) (Verhoeven, A.J.M. (1001) 239)

Metabolism
Endopeptidase 24.11; Sulfation; Gastrin; Cholecystokinin (Pauwels, S. (996) 82)

Metachromasy
Lipase; Lipolytic enzyme; Safranine; Spectrophotometric assay (Rawyler, A. (1004) 337)

Metachromatic leukodystrophy
Fluorescent sulfatide; Pyrene cerebroside sulfate; Sulfatide uptake (Viani, P. (1002) 20)

Metal
ATPase, Na^+/K^+-; Phosphatase, K^+-; Dimethyl sulfoxide; pH (Robinson, J.D. (997) 41)

Metal analysis
Cytochrome oxidase; Electron paramagnetic resonance (Öblad, M. (975) 267)

Metal binding
Phytoferritin; Nonferrous metal; Synthetic iron core; Ferritin (Szczekan, S.R. (990) 8)

Metal binding protein
Metallothionein; Copper toxicity; Metal resistance; (Hepatoma cell) (Freedman, J.H. (992) 145)

Metal binding site
Ovotransferrin; Copper displacement; Iron (Xian-Xuan, C. (992) 160)

Metal hexacyamide complex
Electron transfer; Kinetics; Cytochrome *c*; Photoexcitation (Cho, K.C. (973) 53)

Metal ion
Adrenochrome rearrangement; Adrenolutin; Dihydroxyindole; Adrenochrome dimer; Dihydroxyisatin; Adrenaline metabolism (Palumbo, A. (990) 297)

Metal ion inhibitor
Plasma membrane calcium ion inflow; Calcium ion channel; Calcium receptor; (Rat hepatocyte) (Hughes, B.P. (1013) 197)

Metallo-endoproteinase substrate
Glucose transporter; Glucose 6-phosphate; Dipeptide Cbz-Gly-Phe-NH_2; Phenylarsine oxide; Membrane reconstitution; (Rat adipocyte); (Human erythrocyte) (Wheeler, T.J. (979) 331)

Metalloenzyme
β-Lactamase II; ESR; Cobalt(II) reconstitution; (*B. cereus*) (Myers, J.L. (995) 264)

Metalloporphyrin
Porphyrin; Ferrochelatase; Active site; (Mouse) (Dailey, H.A. (999) 7)

Metalloprotein
Glycerol dehydrogenase; Stereospecificity; Fluorescence (Spencer, P. (994) 270)

Metalloproteinase
Procollagenase assay; Collagenase assay; Collagenase inhibitor; Metalloproteinase inhibitor (Lefebvre, V. (992) 355)

Enzyme purification; Mammary carcinoma; Carcinoma; (Rat) (Nethery, A. (993) 42)

V-8 serine proteinase; Apometalloproteinase; Calcium ion; (*S. aureus*) (Potempa, J. (993) 301)

Collagenase; Stromelysin; (Rat mammary carcinoma) (Nethery, A. (994) 149)

Osteoblast; Collagen degradation; 1,25-Dihydroxyvitamin D-3; Plasminogen activator; Collagenase; Tissue inhibitor of metalloproteinases; (Mouse) (Thomson, B.M. (1014) 125)

Metalloproteinase inhibitor
Procollagenase assay; Collagenase assay; Collagenase inhibitor; Metalloproteinase (Lefebvre, V. (992) 355)

Metallothionein
Metal binding protein; Copper toxicity; Metal resistance; (Hepatoma cell) (Freedman, J.H. (992) 145)

Cadmium ion; Cadmium resistance; (*S. cerevisiae* 301N) (Inouhe, M. (993) 51)

Pyridoxal kinase; Activation (Churchich, J.E. (996) 181)

Copper(I) thiolate; Copper increase; Melanoma; ELISA; Immunoblot; (Horse) (Krauter, B. (1013) 212)

Metallothionein mRNA
Stress induced gene expression; Heat shock protein mRNA; Heavy metal; Gene expression; mRNA; (Fish cell lines) (Misra, S. (1007) 325)

Metal resistance
Metallothionein; Metal binding protein; Copper toxicity; (Hepatoma cell) (Freedman, J.H. (992) 145)

Metastasis
Glycosaminoglycan; Interaction; Internalization; Receptor; Cell culture (Redini, F. (991) 359)

Methanogenic bacterium
NMR, ^{13}C-; NMR, ^{15}N-; β-Aminoglutaric acid; (*M. thermolithotrophicus*) (Robertson, D.E. (992) 320)

Methionine
Methotrexate metabolism; Monolayer culture; (Rat hepatocyte) (Rhee, M.S. (1011) 122)

Methionine repressor
High pressure; (*E. coli*) (Wong, P.T.T. (996) 260)

Methotrexate
Methotrexate transport; Leukemia cell; Membrane protein; Anion transport; Crosslinking (Jansen, G. (985) 266)

Methotrexate metabolism
Monolayer culture; Methionine; (Rat hepatocyte) (Rhee, M.S. (1011) 122)

Methotrexate transport
Methotrexate; Leukemia cell; Membrane protein; Anion transport; Crosslinking (Jansen, G. (985) 266)

***N*-Methylaminoethylphosphonic acid**
Phosphonoglycosphingolipid; Phosphonolipid; Trigalactosylceramide; FAB-MS; Structure determination; (*T. cornutus*) (Hayashi, A. (1006) 89)

***N*-Methylation**
Phosphatidylethanolamine; Molecular species; Microsome; (Rat liver) (Audubert, F. (1002) 62)

3-*O*-Methyl-D-glucose transport
2-Deoxy-D-glucose accumulation; 2-Deoxy-D-glucose 6-phosphate accumulation; Hexose transport; (Rat adipocyte) (Thompson, K.A. (1011) 58)

1-Methyl-2-hydroxyiminomethylpyridinium chloride
Acetylcholinesterase; Monoclonal antibody; Ligand; Indophenyl acetate (Wolfe, A.D. (997) 232)

fMet-Leu-Phe
Lipoxin; RBL-1 cell; Ionophore A23187; Phorbol myristate acetate; 5-Lipoxygenase; 15-Lipoxygenase; (Rat) (Ng, C.F. (1004) 332)

Phorbol ester; pH, intracellular; Calcium ion, cytosolic; (HL60 cell) (Ladoux, A. (1013) 55)

Mevalonate catabolism
HMG-CoA lyase; Acetoacetate; Acetyl-CoA; (*P. mevalonii*) (Scher, D.S. (1003) 321)

Mevalonate 5-diphosphate decarboxylase
Dithiol compound; (Chicken liver) (Alvear, M. (994) 7)

Substrate binding order; (Chicken liver) (Jabalquinto, A.M. (996) 257)

Mevinolin
β-Hydroxy-β-methylglutaryl-CoA reductase; Active site label; Substrate inactivation (Dugan, R.E. (998) 91)

Mg·ATP
Myosin; LMM; Assembly (Chowrashi, P.K. (997) 182)

MHG-CoA reductase inhibitor
Simvastatin; Acyl-CoA:cholesterol acyltransferase; Cholesterol esterification; (Rabbit) (Ishida, F. (1004) 117)

miaA
Cytokinin; RIA; HPLC; Boronate chromatography; tRNA independent cytokinin-like compound; (*S. typhimurium (miaA)*) (Blum, P.H. (1007) 196)

Micellar enzymology
Membrane; Enzyme; Reversed micellar system (Martinek, K. (981) 161)

Micelle
Vesicle; Octyl glucoside; Phosphatidylcholine; Protein reconstitution; Protein purification; Acetylcholine receptor; Nicotinic acetylcholine receptor (Schürholz, T. (986) 225)

Cholesterol; Taurocholate (Chijiiwa, K. (1001) 111)

Phospholipase A_2; Protein inhibition; Lipid/water interface; Liposome; Protein stimulation; (Pancreas); (Bee venom) (Conricode, K.M. (1003) 36)

Micelle–vesicle transition
Bile salt; Phosphatidylcholine; Drug entrapment; Quasi-elastic light scattering; Transmission electron microscopy (Son, K. (981) 288)

Michaelis-Menten absorption
β-Alanine; β-Amino acid; γ-Amino acid; Absorption kinetics; (Rat intestine) (Merino, M. (986) 1)

Microbial growth
Chemostat; Thermodynamics, non-equilibrium; Growth model; (*K. aerogenes*) (Rutgers, M. (977) 142)

Microbody
Peroxisome; Glyoxysome; Glycosome; Protein translocation; Topogenesis; Biogenesis (Borst, P. (1008) 1)

Micrococcal nuclease
Histone; Core particle; Chromatosome; (Chicken erythrocyte) (Lindsey, G.G. (1009) 257)

Microelectrode measurement
Membrane potential; Proton efflux; Electrogenic proton pump; Potassium ion/proton cotransport; (*D. discoideum*) (Van Duijn, B. (983) 186)

Microelectrode technique
Membrane potential; Amphotericin B; Ion conductance; (*R. catesbeiana* cornea) (Carrasquer, G. (982) 73)

Microelectrophoresis
Supported bilayer; Biosensor; Langmuir-Blodgett film; Protein adsorption; Lipid bilayer (Stelzle, M. (981) 135)

Microenvironment
Bile salt; Phosphatidylcholine; Cholesterol; Pyrene; Thiacarbocyanine (Matsuzaki, K. (980) 371)

Microfilament–membrane interaction
Cell transformation; (Hamster kidney cell) (Koffer, A. (982) 295)

Microheterogeneity
α_1-Antichymotrypsin; Isoelectric focusing; Amino terminal amino acid sequence; Serpin (Lindmark, B. (997) 90)

Microheterogeneity
Cholesterol; 1,6-Diphenyl-1,3,5-hexatriene; Frequency domain fluorometry; Lifetime distribution (Fiorini, R. (1006) 198)

Microscopy
Fibrin; Fibrin gel structure; Permeability; Turbidity (Blombäck, B. (997) 96)

Microsequencing
Bacteriorhodopsin; Proteolysis; Protein blotting; Secondary structure model (Fimmel, S. (978) 231)

Microsomal membrane
Dolichyl phosphoglucose; Glucosyltransferase; Regulation; (Human liver microsome) (Matern, H. (1004) 67)

Hormone receptor; Somatotropin; Prolactin; Growth hormone; Cross-linking; (Rat hepatocyte) (Robetto, E.J. (1013) 223)

Microsomal membrane protein
Cytochrome b_5; Protein *N*-acetylation; Orientation of membrane protein (Ozols, J. (997) 121)

Microsomal receptor
AP endonuclease; Enzyme-receptor complex; Membrane protein; Karyophilic protein; (Rat liver microsome) (Verly, W.G. (1008) 183)

Microsomal triacylglycerol
VLDL secretion; Chloroquine; Rat hepatocyte (Francone, O.L. (1002) 28)

Microsome
Glucose-6-phosphate phosphohydrolase; Phospholipid vesicle; (Guinea pig liver) (Gumbhir, K. (981) 77)

Phosphate assay; HPLC; Membrane bound enzyme; Purine; Pyrimidine; ATPase (Missiaen, L. (990) 40)

Glucose-6-phosphatase; Glucose 6-phosphate transport; Amiloride (Pears, J. (993) 224)

Lipid peroxidation; α-Tocopherol; Dihydrolipoate; Antioxidant; (Rat) (Scholich, H. (1001) 256)

Phosphatidylethanolamine; *N*-Methylation; Molecular species; (Rat liver) (Audubert, F. (1002) 62)

Cytotoxicity; 7,22-Dihydroxycholesterol; (22*R*)-22-Hydroxycholesta-4,6-dien-3-one (Boberg, K.M. (1004) 321)

Epoxide hydrolase; Gene; DNA sequence; (Human) (Wilson, N.M. (1008) 357)

Microspectrophotometry
Paraflagellar swelling; Rhodopsin; (*E. gracilis*) (Gualtieri, P. (993) 293)

Microtrabeculae
Glycolytic enzyme; Tubulin; Microtubule; Poly(ethylene glycol); Cytomatrix (Walsh, J.L. (999) 64)

Microtubule
Electrofusion; Electropermeabilization; Cytoskeletal reorganization; Immunofluorescence; (CHO cell) (Blangero, C. (981) 295)

Tubulin; Raman spectroscopy; Secondary structure (Audenaert, R. (996) 110)

Glycolytic enzyme; Tubulin; Poly(ethylene glycol); Microtrabeculae; Cytomatrix (Walsh, J.L. (999) 64)

Microtubule assembly
Interferon; (Human) (Ward, L.D. (1012) 317)

Microtubule binding protein
Glyceraldehyde-3-phosphate dehydrogenase; (Human tumor cell line) (Launay, J.F. (996) 103)

Microtubule inhibition
Colchicine; Mebendazole; Nematode; Tubulin; (*C. elegans*) (Russell, G.J. (993) 233)

Micro-Ussing chamber
Potassium ion secretory epithelium; Ionic conductance; Chloride channel blocker; (Inner ear) (Marcus, D.C. (987) 56)

Microvesiculation
Merocyanine 540; Echinocytosis; Erythrocyte membrane (Allan, D. (986) 115)

Microvilli
In vitro fertilization; Fertilization; Single cell rotation; Membrane capacity; Membrane resistivity; Electrorotation; (Zona pellucida) (Arnold, W.M. (979) 142)

Microvillus membrane
Lipid permeability; Membrane fluidity; Cholesterol; 7-Dehydrocholesterol; (Rat) (Meddings, J.B. (984) 158)

Milk
Lactoferrin; Colostrum; ssDNA; Amino acid sequence; Purification; (Porcine) (Hutchens, T.W. (999) 323)

Milk-clotting enzyme
Aspartic proteinase; Substrate specificity; κ-Casein; Glycomacropeptide (Drøhse, H.B. (995) 221)

Milk fat globule membrane
Glycoprotein; Polymorphism; Mammary epithelia; (Human); (Cow); (Chimpanzee); (Horse) (Patton, S. (980) 333)

Milking efficiency
Casein degradation; Mammary explant; Autocrine control; (Goat) (Wilde, C.J. (992) 315)

Milk protein
Phosphoprotein; Osteopontin; Tumor cell; (Human) (Senger, D.R. (996) 43)

Minicircle
RNA editing; Kinetoplast DNA; DNA; Maxicircle; Transcription; (Trypanosome mitochondria) (Benne, R. (1007) 131)

M_{412} intermediate
Bacteriorhodopsin; Photoselection; Fourier transform infrared difference spectroscopy; Retinal (Breton, J. (973) 13)

Mitochondrial ATPase
Oxidative phosphorylation; Uncoupler; Inhibitor; Almitrine; (Yeast) (Rigoulet, M. (975) 325)

Mitochondrial calcium
Acyl-CoA, long chain; Mitochondrial membrane potential; L-Carnitine (Di Lisa, F. (973) 185)

Mitochondrial channel
Aluminium hydroxide; VDAC; Mitochondrion; Voltage dependence; Outer membrane (Zhang, D.-W. (991) 68)

Mitochondrial inner membrane
Osmometry; Cytochrome oxidase; Enzyme latency; Energy coupling; Ionic strength; (Rat liver mitochondria) (Sitaramam, V. (975) 252)

Mitochondrial lipid
Calcium ion transport; Liposome; Cardiolipin; Phosphatidylethanolamine; Arsenazo III (Kester, M.B. (980) 127)

Mitochondrial membrane
Creatine kinase; Contact site; Myocardium; Electron microscopy; (Rat) (Biermans, W. (974) 74)

VDAC protein; Mitochondrial porin; Membrane fusion; Protein crystallization; Membrane channel protein (Mannella, C.A. (981) 15)

Calcium ion transport; Mercury ion (Chávez, E. (986) 27)

Tocopherol depletion; Lipid peroxidation; Radical stress; Protein fragmentation; (Rat) (Thomas, S.M. (1002) 189)

Mitochondrial membrane potential
Acyl-CoA, long chain; L-Carnitine; Mitochondrial calcium (Di Lisa, F. (973) 185)

Mitochondrial metabolism
Inorganic pyrophosphatase; Pyrophosphate (Mansurova, S.E. (977) 237)

Mitochondrial porin; Outer mitochondrial membrane; Lipid bilayer membrane; (*Paramecium*) (Ludwig, O. (978) 319)

Mitochondrial mutant
ATPase, H^+-; Membrane subunit; (Yeast mitochondria) (Marzuki, S. (975) 222)

Mitochondrial myopathy
mitochondrial DNA; S_1 nuclease; Polymerase chain reaction; Heteroduplex; Oligonucleotide primer (Tanaka-Yamamoto, T. (1009) 151)

Mitochondrial outer membrane
Mannosyltransferase; Dolichyl monophosphate; (Mouse liver) (Gasnier, F. (980) 339)

Mitochondrial oxidative phosphorylation
Magainin; Vertebrate peptide antibiotics; Free energy transduction; Membrane potential; Uncoupler; PGLa; (*X. laevis*) (Westerhoff, H.V. (975) 361)

Mitochondrial porin
Outer mitochondrial membrane; Lipid bilayer membrane; Mitochondrial metabolism; (*Paramecium*) (Ludwig, O. (978) 319)

VDAC protein; Mitochondrial membrane; Membrane fusion; Protein crystallization; Membrane channel protein (Mannella, C.A. (981) 15)

Mitochondrial processing
Glycerol-3-phosphate dehydrogenase; In vitro translation; Thyroid hormone; Protein transport (Clay, V.J. (975) 112)

Mitochondrial RNA
Cytochrome *c* oxidase; Lymphocyte maturation; Northern blot (Bustelo, X.R. (977) 341)

Mitochondrion
Electron transfer; Flavoprotein; Enoyl-CoA reduction; Protein purification; (*A. suum*) (Komuniecki, R. (975) 127)

EDTA; EGTA; Adenine nucleotide; P_i-induced swelling; (Rat liver) (Lund, P. (975) 330)

Tricarboxylate carrier; Membrane transport; Reconstitution; Liposome; (Rat liver) (Bisaccia, F. (977) 171)

Dicarboxylate carrier reconstitution; Enzyme kinetics; Liposome; (Rat liver) (Indiveri, C. (977) 187)

Dicarboxylate carrier mechanism; Enzyme kinetics; Substrate inhibition; Liposome; (Rat liver) (Indiveri, C. (977) 194)

Cardiac bioenergetics; (Antarctic); (Icefish heart) (Feller, G. (977) 233)

Uncoupling; Membrane potential; Fatty acid; Proton conductance (Schönfeld, P. (977) 266)

Contact site; Peripheral kinase; Hexokinase; Creatine kinase; Nucleoside-diphosphate kinase (Adams, V. (981) 213)

Duramycin; Inner membrane permeability; Volume change; Adenine nucleotide translocator; (Rat heart) (Sokolove, P.M. (983) 15)

Plasticizer; Di(2-ethylhexyl) phthalate; Calcium ion transport; Adenine nucleotide translocator; (Rat liver) (Kora, S. (985) 286)

Porin; Lipid bilayer; Reconstitution; Ion selectivity; VDAC; (*D. melanogaster*) (De Pinto, V. (987) 1)

Dicarboxylic acid beta oxidation; Beta oxidation; Peroxisome; (Rat liver) (Suzuki, H. (990) 25)

Aluminium hydroxide; VDAC; Voltage dependence; Mitochondrial channel; Outer membrane (Zhang, D.-W. (991) 68)

Glyoxalase II; Kinetic constant; Immunochemical characterization; (Rat liver) (Talesa, V. (993) 7)

Chloroplast; Sulfolipid biosynthesis; Sulfite; *S*-Sulfocysteine; Cysteine sulfinic acid; (*Euglena*) (Saidha, T. (1001) 268)

Fatty acid binding protein; ELISA; Subcellular distribution; Nucleus; (Bovine heart) (Börchers, T. (1002) 54)

Lauric acid; Myristic acid; Octanoic acid; Fatty acid oxidation; (Rat hepatocyte); (Peroxisome) (Christensen, E. (1004) 187)

Propionyl-CoA thioesterase; Fatty acid metabolism; Acyl-CoA hydrolase; (Rat brown adipose) (Alexson, S.E.H. (1005) 13)

Riboflavin deficiency; Peroxisome; Acyl-CoA; Flavoprotein; Organic acid; (Rat) (Veitch, K. (1006) 335)

Mercury chloride; Toxicology; Calcium ion; Cell death; (Sea urchin egg) (Walter, P. (1012) 219)

Mitogenesis
Hormone receptor; Calcium ion; Calcium ionophore; Ionomycin; Lymphocyte activation; Calmodulin (Jy, W. (983) 153)

Mitogenic response
Lipid peroxidation; DNA synthesis; Splenocyte; Thymocyte; (Mouse) (Oarada, M. (1012) 156)

Mitogen regulated protein
Proliferin; Growth hormone; Mouse prolactin; Gene expression; Promoter sequence (Connor, A.M. (1009) 75)

Mitogen stimulation
Linoleic acid; Fatty acid composition; (Human lymphocyte) (Shires, S.E. (1002) 74)

Lymphocyte activation; Eukaryotic differentiation; Poly(ADP-ribose) polymerase; Northern blotting; (Human) (McNerney, R. (1009) 185)

Glucose; Ketone body; Glutamine; (Rat splenic lymphocyte) (O'Rourke, A.M. (1010) 342)

Mitomycin C
Free radical formation; Cardiac microsome; Antitumor drug; (Perfused rat heart) (Politi, P.M. (992) 341)

Mixed acid
DSC; Phosphatidylcholine, mixed acid; Dienoic lipid; Cholesterol; Model membrane (Keough, K.M.W. (983) 51)

Mixed bilayer
Phosphatidylcholine vesicle; Calcium adsorption; Fluorescence anisotropy; Calcium ion asymmetry (Bakás, L.S. (979) 352)

Mixed monolayer
Lipid; Lipopeptide; Antifungal; Iturin (Maget-Dana, R. (981) 309)

Mn cluster
Crosslinking; Nearest neighbor relationship; Extrinsic 33 kDa protein; Oxygen evolution (Enami, I. (973) 35)

Model membrane
Trichorzianine; Antibiotic–membrane interaction; (Amoeba *Dictyostelium*) (Hajji, M.E. (978) 97)

Dipalmitoylphosphatidylcholine; Free fatty acid; Resonance energy transfer; Fourier transform infrared spectroscopy (McKersie, B.D. (982) 156)

DSC; Mixed acid; Phosphatidylcholine, mixed acid; Dienoic lipid; Cholesterol (Keough, K.M.W. (983) 51)

Acetylcholine receptor; Channel conformation; Noncompetitive blocker (Furois-Corbin, S. (984) 339)

Amino acid sequence, terminal; Synthetic peptide; Pardaxin; Phosphatidylcholine; Phosphatidylserine (Saberwal, G. (984) 360)

Solid state NMR; NMR, ^{2}H-; (−)-Δ^9-Tetrahydrocannabinol; Cannabinoid orientation; Drug–membrane interaction (Makriyannis, A. (986) 141)

Mercury chloride; Phospholipid–mercury interaction; Amine group, primary; Thermotropic effect; Phase transition (Delnomdedieu, M. (986) 191)

Membrane potential; Cable equation; Black lipid membrane; Glycerol monooleate; Gramicidin (Fromherz, P. (987) 222)

Model peptide
Membrane potential; Lipid–peptide interaction (De Kroon, A.I.P.M. (981) 371)

NMR, two dimensional; β-Strand; Dynorphin; Amphiphilic structure (Vaughn, Jr., J.B. (999) 135)

Modification
Sarcoplasmic reticulum; Skeletal muscle; ATPase protein (Bailin, G. (995) 122)

Modifying agent
Thiol group; Peptide transport; Brush-border membrane vesicle; (Rabbit kidney) (Miyamoto, Y. (978) 25)

Modulation
Collagen; Fibronectin; Smooth muscle cell; Heparin fragment; Biosynthesis; (Pig) (Asselot-Chapel, C. (993) 240)

Molar absorptivity
Polypeptide conformation; Poly(L-lysine); FT-IR (Jackson, M. (998) 75)

Molecular charge distribution
Anion transport; Contraluminal membrane; Hydrophobicity; Sulfate (Fritzsch, G. (978) 249)

Molecular cloning
Phospholipase A_2; Tissue distribution (Sakata, T. (1007) 124)

Prolactin-like cDNA; cDNA; Nucleotide sequence; (Bovine placenta) (Tanaka, M. (1008) 193)

Molecular model
Dihydrofolate reductase; Pyrimethamine; (*E. coli*) (Sansom, C.E. (995) 21)

Molecular modeling
Gramicidin A; Phosphatidylcholine; AMBER (Meulendijks, G.H.W.M. (979) 321)

Molecular orbital calculation
Equilibrium constant; Imidazole, substituted; Free energy perturbation (Worth, G.A. (993) 134)

Amide–aromatic interaction; Sulfur–aromatic interaction; Protein side chain contact; π Hydrogen bond (Cheney, B.V. (996) 116)

Molecular species
Phosphatidylethanolamine; *N*-Methylation; Microsome; (Rat liver) (Audubert, F. (1002) 62)

Phosphatidylinositol; Phosphatidylinositol synthase; (Potato tuber); (Pea leaf); (Soya bean microsome) (Justin, A.M. (1005) 51)

Molecular species profile
Phosphatidylcholine; Lecithin–cholesterol acyltransferase; Enzyme deficiency (Subbaiah, P.V. (1003) 145)

Molecular surface composition
Bacterial cell surface; Transmission infrared spectroscopy; Fourier transform infrared spectroscopy; X-ray photoelectron spectroscopy (XPS) (Van der Mei, H.C. (991) 395)

Molecular weight form
Bacteriorhodopsin; Papain proteolysis; Isoelectric focusing; Isoelectric form; (*H. halobium*) (Ross, P.E. (991) 134)

Mollusc
Lipoxygenase; 5-Hydroxyicosatetraenoic acid; Arachidonic acid metabolism; Pelecypoda; (*L. subrostrata*) (Hagar, A.F. (1005) 162)

Momorcochin-S
Ribosome inactivating protein; RNA *N*-glycosidase; Immunotoxin (Bolognesi, A. (993) 287)

Monensin
Lipid transport; Fatty acid transport; Golgi complex; (Leek seed) (Bertho, P. (978) 91)

Phenylarsine oxide; Glucose transport; Insulin processing; Signal transduction; (Rat adipocyte) (Douen, A.G. (1010) 363)

NMR, ^{23}Na-; NMR, ^{31}P-; Bacterial membrane; Ion transport; (*S. faecalis*) (Delort, A.-M. (1013) 11)

Monkey erythrocyte membrane
Glycophorin MK; Amino Acid Sequence; Blood group activities, MN (Murayama, J.-I. (999) 273)

Mono(ADP-ribosyl)ation
Mono(ADP-ribosyl)transferase; Adenylate cyclase; Epinephrine; GTP binding protein; (Human platelet membrane) (Tanuma, S. (1010) 246)

Mono(ADP-ribosyl)transferase
Mono(ADP-ribosyl)ation; Adenylate cyclase; Epinephrine; GTP binding protein; (Human platelet membrane) (Tanuma, S. (1010) 246)

Monoamine oxidase
Lipoxygenase; Lipid peroxidation; (Rat liver) (Wiesner, R. (986) 11)

Granulocyte; Lymphocyte; Inhibitor sensitivity; Kinetic constant; Pargyline binding; (Human) (Dolors Balsa, M. (992) 140)

Monoclonal antibody
Thylakoid membrane; Membrane protein topography; Photosystem II; Cytochrome *b*-559; Immunocytochemistry (Vallon, O. (975) 132)

Proton/D-glucose cotransporter; Sodium ion/D-glucose cotransporter; Protein homology; Western blot analysis; (*Z. mays*); (Pig kidney) (Rausch, T. (985) 133)

Interferon; Poly(rI)·poly(rC); Antiviral chemotherapy; Liposome; Drug targeting (Milhaud, P.G. (987) 15)

ATPase, H^+/K^+-; Chloride conductance (Benkouka, F. (987) 205)

Cellulase; Cellobiohydrolase; Functional domain; Proteolysis; (*T. reesei*) (Mischak, H. (990) 1)

Vitronectin; Serum spreading factor; Cell spreading assay; Heparin binding; (Human plasma) (Izumi, M. (990) 101)

β-Glucosidase; (*T. reesei*) (Hofer, F. (992) 298)

ATPase, $(Na^+ + K^+)$-; (Horse kidney) (Satoh, K. (994) 104)

Steroid sulfatase; Arylsulfatase C; (Rat); (Human) (Kawano, J.-i. (997) 199)

Acetylcholinesterase; Ligand; Indophenyl acetate; 1-Methyl-2-hydroxyiminomethylpyridinium chloride (Wolfe, A.D. (997) 232)

β-Lactoglobulin; Protein conformation; Heat denaturation (Kaminogawa, S. (998) 50)

Antibody–hapten interaction; Phosphorylcholine; Intrinsic fluorescence; Fluorescence quenching; Derivative spectroscopy (Urbaneja, M.-A. (998) 85)

Colipase; Immunoinactivation; Antigenic specificity; Pancreas (La Fournière, L. (998) 158)

Glycolipid; Adenocarcinoma; Colon tumor; (Rat) (Thurin, J. (1002) 267)

HDL; Apolipoprotein A-I; Apolipoprotein A-II; Immunoaffinity chromatography; (Human) (James, R.W. (1002) 292)

Apolipoprotein A-I; Cyanogen bromide fragment; (Human) (Fidge, N. (1003) 84)

Fc receptor; LDL; Cholesterol; (U937 cell) (Bigler, R.D. (1011) 102)

Bleomycin hydrolase; Intrinsic resistance; Intracellular degradation; Enzyme distribution; (Chinese hamster cell line) (Nishimura, C. (1012) 29)

Monoclonal antibody B3/25
N-(2-Hydroxypropyl)methacrylamide copolymer; Transferrin; Drug carrier; Targeting (Flanagan, P.A. (993) 83)

Monocyte-derived macrophage
HDL receptor; Retroendocytosis; Reverse cholesterol transport; Atherosclerosis; (Human macrophage) (Alam, R. (1004) 292)

Monogalactosyldiacylglycerol
ATP synthesis; CF_0/CF_1; Lipid packing; Membrane fluidity; Transmembrane distribution (Rawyler, A. (975) 283)

Digalactosyldiacylglycerol; (*D. acidophila*) (Della Greca, M. (1004) 271)

Monolayer
Ganglioside; Phospholipid; Water/lipid interface; Lipid/air interface; Surface potential; Electric dipole moment (Beitinger, H. (984) 293)

Fatty acid binding protein; Fatty acid transfer; Fatty acid oxidation; (Human); (Rat) (Peeters, R.A. (1002) 8)

Monolayer culture
Methotrexate metabolism; Methionine; (Rat hepatocyte) (Rhee, M.S. (1011) 122)

Monomer
Human interferon-β1; Oligomer; Inactivation; Reactivation; Detergent (Utsumi, J. (998) 167)

Monomeric bacteriorhodopsin
Unfolding; Conformational stability (Maglova, L. (975) 271)

Mononuclear leukocyte
β-Adrenergic receptor; Agonist binding; Plasma membrane barrier; (Human) (Fratelli, M. (1012) 178)

Mononuclear phagocyte
Carnitine; Lymphocyte; Acylcarnitine; (Human) (Cress, A.P. (992) 135)

Mononuclear phagocyte system
Reticuloendothelial system; Liposome; Ganglioside; Drug delivery; Sphingomyelin; (Mouse) (Allen, T.M. (981) 27)

Monooxygenase
Cytochrome *P*-450; Nematode; (*H. polygyrus*); (*P. redivivus*) (Precious, W.Y. (992) 215)

Monovalent cation
Phosphatidylglycerol; Polar headgroup stereoconfiguration; Phase behavior; DSC (Salonen, I.S. (982) 205)

Morphogenesis
Membrane; Ion channel; Diffusion; Electrophoresis; Neuromuscular junction (Fromherz, P. (986) 341)

Mössbauer
Bleomycin; Ion-bleomycin complex; ESR; NMR (Levy, A. (991) 97)

Mouse prolactin
Mitogen regulated protein; Proliferin; Growth hormone; Gene expression; Promoter sequence (Connor, A.M. (1009) 75)

Movable genetic element
α2u Globulin; Urinary protein; LINE 1 interruption; Genomic sequence; Terminal redundancy (Yamamoto, M. (1008) 322)

Mucin
Colon cancer; Ion exchange chromatography; Glycoprotein (Shimamoto, C. (991) 284)

Mucin degradation
Respiratory mucin; Infection; (Human); (*P. aeruginosa*) (Houdret, N. (992) 96)

Mucus
Elastase; Proteinase inhibitor; Leukocyte; (Human) (Boudier, C. (995) 36)

Multicatalytic proteinase
High molecular weight cysteine proteinase; ATP activated proteolysis; Proteinase-α_1-macroglobulin complex; Reticulocyte; (Rabbit) (Kuehn, L. (991) 263)

Macropain; Proteinase; Latent form; (Human erythrocyte) (McGuire, M.J. (995) 181)

Multidrug resistance
P-glycoprotein; (KB cell); (Human) (Yoshimura, A. (992) 307)

Amphiphile transport; Transbilayer diffusion; (CHO cell) (Boscoboinik, D. (1014) 53)

Multiple conductance state
Patch clamp; Potassium ion channel; Channel degradation; (Molluscan glial cell) (Geletyuk, V.I. (981) 343)

Multiple molecular form
Cytochrome *P*-450$_{SCC}$; Purification; (Bovine corpus luteum); (Mitochondrion) (Sugano, S. (994) 235)

Multiple phosphorylation
Myosin light chain; Myosin light chain phosphatase; (Aortic smooth muscle) (Erdődi, F. (1011) 67)

Multi-state channel
Pore-forming protein; Black lipid membrane; (*E. histolytica*) (Keller, F. (982) 89)

Multisystemic lipid storage myopathy
Fluorescent triacylglycerol; Triacylglycerol degradation; Triacylglycerol lipase; (Human lymphoid cell line) (Radom, J. (1005) 130)

Muramyl dipeptide
Tumor cytotoxicity; Liposome; Macrophage; (Rat liver) (Daemen, T. (991) 145)

Murine adrenocortical cell
HDL; Cholesteryl ester; Selective uptake; Plasma membrane; Cholesteryl ether (Knecht, T.P. (1002) 365)

Muscle
1,25-Dihydroxyvitamin D-3; Myoblast; Myoblast protein synthesis; Calcium ion binding protein (Drittanti, L.N. (1012) 16)

Muscle contraction
Glycolysis; High energy phosphate; (Pig) (Barron, J.T. (976) 42)

Myosin light chain phosphorylation; ATP content; (Pig) (Barron, J.T. (1010) 278)

Muscle culture
Sarcoplasmic reticulum; Skinned muscle; Calcium ion accumulation (Brik, H. (980) 273)

Muscle disease
Calcium regulation; Innervation; Duchenne muscular dystrophy; Becker muscular dystrophy (Martonosi, A. (991) 155)

Muscle fatigue
Enzyme binding; Phosphofructokinase; Glycolysis; (Gastrocnemius muscle); (*R. pipiens*) (Guderley, H. (977) 87)

Muscle myofibril
Aldolase–myofibril interaction; Calcium binding; Troponin (Harris, S.J. (999) 95)

Muscular dystrophy
Calcium ion, intracellular; Lymphocyte; (Human lymphocyte) (Mechler, F. (1012) 227)

Mutagenesis
c-subunit; Site directed mutagenesis; ATPase, F_1F_0-; (*E. coli*) (Fimmel, A.L. (978) 299)

SOS response; In vitro replication; DNA; Ultraviolet irradiation; (*E. coli*); (ColE1 plasmid) (Casaregola, S. (1008) 45)

Epstein-Barr virus derived vector; Shuttle vector; Transcription; (Human embryonic kidney cell) (Palombo, F. (1009) 251)

Mutagenesis, site directed
Cytochrome *P*-450; Axial ligand; Hemoprotein (Shimizu, T. (995) 116)

Mycoside
Glycolipid; Phenolic mycoside; (*M. leprae*) (Daffé, M. (1002) 333)

Myelin
Undernutrition; ATPase, Na^+/K^+-; 5′-Nucleotidase; Phospholipid fatty acid; Ganglioside; (Rat) (Shantharam, P. (982) 115)

Myelinated nerve
Sodium ion channel; Tetrodotoxin; Saxitoxin; (Frog) (Lönnendonker, U. (985) 153)

Sodium ion channel; Tetrodotoxin; Saxitoxin; Fluctuation analysis; (Frog) (Lönnendonker, U. (985) 161)

Myelin basic protein
Membrane bilayer; Phase transition; Bilayer stabilization (Fraser, P.E. (983) 23)

Lipid lateral diffusion; Lipid–protein interaction; Spin label; ESR (Páli, T. (984) 128)

Myelin body
Lysosomal fraction; Gentamicin treatment; (Rat kidney cortex) (Nässberger, L. (984) 365)

Myelin figure
Growth mechanism; Phosphatidylcholine; Cryo-stage system; Scanning electron microscopy (Sakurai, I. (985) 101)

Phosphatidylcholine; Bioelectric field effect (Mishima, K. (985) 351)

Myelinogenesis
Cholesterol synthesis; Cholesterol precursor precursor; Brain nerve tissue; (Mouse); (Rat) (Bourre, J.M. (1004) 387)

Myeloid leukemia cell
Growth promoting factor; Transferrin; (Horse serum); (Human cell) (Yoshinari, K. (1010) 28)

Myeloperoxidase
Neutrophil; Myocardial injury; Ischemia; Oxygen radical (Kukreja, R.C. (990) 198)

Schiff base oxidation; Phenylacetaldehyde; Neutrophil; Chemiluminescence (Nascimento, A.L.T.O. (991) 50)

Myoblast
Histone; Transcription; Differentiation; Gene regulation; (Rat) (Larson, D.E. (1009) 177)

1,25-Dihydroxyvitamin D-3; Muscle; Myoblast protein synthesis; Calcium ion binding protein (Drittanti, L.N. (1012) 16)

1,25-Dihydroxyvitamin D-3; DNA synthesis; Cell proliferation; Calmodulin; (Chick embryo muscle cell) (Drittanti, L. (1014) 112)

Myoblast protein synthesis
1,25-Dihydroxyvitamin D-3; Muscle; Myoblast; Calcium ion binding protein (Drittanti, L.N. (1012) 16)

Myocardial injury
Neutrophil; Ischemia; Oxygen radical; Myeloperoxidase (Kukreja, R.C. (990) 198)

Myocardium
Creatine kinase; Contact site; Mitochondrial membrane; Electron microscopy; (Rat) (Biermans, W. (974) 74)

Myofibroblast
Retinol; Retinoic acid; Ito cell; Lipid metabolism; (Mouse liver cell) (Margis, R. (1011) 1)

Myogenesis
Polyphosphatidylinositol; Cell–cell recognition; Differentiation; Lithium ion; Inositol (Hausman, R.E. (1013) 92)

Myoglobin
Heme protein; Hemoglobin α-chain; Pulse radiolysis; Hydrated electron (Pin, S. (994) 47)

Etioheme; Coordination structure; Heme recognition; Oxygen binding (Neya, S. (996) 226)

NMR, two dimensional; Phosphine trimethyl; Amino acid assignments (Simonneaux, G. (999) 42)

Myometrium
Progesterone receptor; Endometrium; Antiprogestin ZK 98.299; Relative binding affinity; Binding characteristic; (Human) (Puri, C.P. (1011) 176)

Myopathy
Carnitine–deoxycarnitine exchange; Deoxycarnitine; (Rat) (Sartorelli, L. (1006) 15)

Myosian assembly
Myosin filament; LC2; Skeletal muscle (Chowrashi, P.K. (990) 216)

Myosin
Myosin light chain; Structure prediction; Protein–protein interaction (Béchet, J.-J. (996) 199)

LMM; Mg·ATP; Assembly (Chowrashi, P.K. (997) 182)

Hydrostatic pressure effect; Thick filament; Protein, C- (Tumminia, S.J. (999) 300)

Myosin filament
LC2; Skeletal muscle; Myosian assembly (Chowrashi, P.K. (990) 216)

Myosin light chain
Myosin; Structure prediction; Protein–protein interaction (Béchet, J.-J. (996) 199)

Multiple phosphorylation; Myosin light chain phosphatase; (Aortic smooth muscle) (Erdődi, F. (1011) 67)

Myosin light chain phosphatase
Myosin light chain; Multiple phosphorylation; (Aortic smooth muscle) (Erdődi, F. (1011) 67)

Myosin light chain phosphorylation
Muscle contraction; ATP content; (Pig) (Barron, J.T. (1010) 278)

Myristic acid
Lauric acid; Octanoic acid; Fatty acid oxidation; Mitochondrion; (Rat hepatocyte); (Peroxisome) (Christensen, E. (1004) 187)

Myxothiazol
Catalytic unit; Proton pumping; Oxidant-pulse experiment; Rate/pulse method; Cytochrome-*c* oxidase; Cytochrome-*c* reductase; Cyanide; (Rat liver mitochondria) (Moody, A.J. (973) 29)

N

NAD
Hydrogen evolution; ATP productivity; pH dependence; Membrane bound hydrogenase; (*E. aerogenes*) (Tanisho, S. (973) 1)

NAD$^+$ binding
Deuterated spin label; NAD$^+$ spin label; Spin–spin interaction; Glyceraldehyde-3-phosphate dehydrogenase; Dehydrogenase mechanism (Wilder, R.T. (997) 65)

NAD dimer
Adriamycin; Photooxidation; Semiquinone radical (Carelli, V. (991) 25)

NAD$^+$-glutamate dehydrogenase
Glutamate dehydrogenase; Kinetic mechanism; (*H. halobium*) (Bonete, M.J. (990) 150)

NADH
Malate dehydrogenase; Time resolved fluorescence; Fluorescence polarization (Jameson, D.M. (994) 187)

NADH–cytochrome-b_5 reductase
Cytochrome b_5; Sipunculid; (*P. gouldii*) (Bonomi, F. (999) 147)

cDNA expression; α-Thrombin; (*E. coli*); (Human gene) (Shirabe, K. (1008) 189)

NADH-dehydrogenase
NADH : quinone reductase; Respiratory chain; Flavoprotein; (*E. coli*) (Hayashi, M. (977) 62)

NADH:Q oxidoreductase
NADPH oxidation; Electron transfer; Pre-steady-state kinetics; (Bovine heart mitochondria) (Van Belzen, R. (974) 311)

NADH–quinone oxidoreductase, thylakoid-bound
Respiratory chain; Cyanobacterium; (*A. variabilis*) (Alpes, I. (973) 41)

NADH:quinone reductase
Respiratory chain; NADH-dehydrogenase; Flavoprotein; (*E. coli*) (Hayashi, M. (977) 62)

NADH:ubiquinone oxidoreductase
Proton transfer; Dicyclohexylcarbodiimide; Membrane potential; Submitochondrial particle; (Bovine heart) (Vuokila, P.T. (974) 219)

NAD(P) dependent hydroxysteroid dehydrogenase
Epimerization; Enzyme characterization; Bile acid transformation; (*Ps. productus*) (Edenharder, R. (1004) 230)

NAD(P)^{2}H
Deuteration; Dehydrogenase stereospecificity; NMR; EI-MS (Ottolina, G. (998) 173)

NADPH–cytochrome-*P*-450 reductase
Cytochrome P-450_{C21}; Cytochrome P-$450_{17\alpha,lyase}$; Liposome; Steroidogenesis (Kominami, S. (985) 293)

NADPH oxidase
Neutrophil; Membrane structure; Cytoskeleton; Membrane bound enzyme; Oxygen burst; Superoxide generation (Quinn, M.T. (987) 83)

NADPH oxidation
NADH:Q oxidoreductase; Electron transfer; Pre-steady-state kinetics; (Bovine heart mitochondria) (Van Belzen, R. (974) 311)

Stereospecificity; 4-Aminobenzoate hydroxylase; (*A. bisporus*) (Tsuji, H. (991) 380)

NAD(P)H oxidoreductase
Oxygen free radical; Anion superoxide formation; (Radish plasmalemma) (Vianello, A. (980) 202)

NAD^+ spin label
Deuterated spin label; NAD^+ binding; Spin–spin interaction; Glyceraldehyde-3-phosphate dehydrogenase; Dehydrogenase mechanism (Wilder, R.T. (997) 65)

Naphthoquinone
Chlorophyll fluorescence; Fluorescence quenching; Anthraquinone; Benzoquinone; (Barley chloroplast) (Karukstis, K.K. (973) 124)

Nascent chromatin
Bleomycin; Chromatin aggregation; Chromatin fragmentation; Chromatin maturation; (Mouse L1210 nuclei) (Woynarowski, J.M. (1007) 116)

Natural killer cell activity
α_1-Proteinase inhibitor; Concanavalin A-Sepharose; (Human) (Lejeune, P.-J. (990) 122)

Nb_2 lymphoma
Lactogen; Human growth hormone; cyclic AMP; Protein phosphorylation (Kornberg, L.J. (1011) 205)

Nb_2 node lymphoma cell
Prolactin; Amiloride; Protein synthesis; RNA synthesis; DNA synthesis (Rillema, J.A. (1014) 78)

Nearest neighbor relationship
Crosslinking; Extrinsic 33 kDa protein; Oxygen evolution; Mn cluster (Enami, I. (973) 35)

Negative cooperativity
ATPase F_1; Yeast mutant; Beta subunit; Enzyme kinetics; Nucleotide; (*S. pombe*) (Falson, P. (975) 119)

Nematode
Cytochrome *P*-450; Monooxygenase; (*H. polygyrus*); (*P. redivivus*) (Precious, W.Y. (992) 215)

Colchicine; Mebendazole; Microtubule inhibition; Tubulin; (*C. elegans*) (Russell, G.J. (993) 233)

Neomycin
Surface potential; Zeta potential; Phosphatidylinositol 4,5-bisphosphate; Second messenger (Gabev, E. (979) 105)

Neonatal adrenoleukodystrophy
Lignoceryl-CoA ligase; Peroxisomal β-oxidation; Erucic acid; Adrenic acid; X-linked adrenoleukodystrophy; (Human fibroblast) (Christensen, E. (1002) 79)

Nephrotic syndrome
Hyperlipoproteinemia; Lymph flow rate; Chylomicron synthesis; Triacylglycerol; Intestinal apolipoprotein; (Rat) (Levy, E. (1005) 20)

Netropsin ligand binding
Lexitropsin; Circular dichroism; DNA sequence specificity; DNA–drug interaction (Burckhardt, G. (1009) 11)

Neuroblastoma
Neuroblastoma × glioma hybrid; Glioma; Polyphosphoinositide; Inositol cycle; Cell culture (Glanville, N.T. (1004) 169)

Neuroblastoma × glioma hybrid
Neuroblastoma; Glioma; Polyphosphoinositide; Inositol cycle; Cell culture (Glanville, N.T. (1004) 169)

Neurofilament
Phosphorylation; Protein kinase; Cam kinase II; Protein kinase, cyclic AMP dependent; (Spinal cord) (Caputo, C.B. (1012) 299)

Neuromuscular junction
Membrane; Ion channel; Diffusion; Electrophoresis; Morphogenesis (Fromherz, P. (986) 341)

Neuropeptide head activator
NMR, ^{1}H-; Nuclear Overhauser effect (Saffrich, R. (997) 144)

Neuropeptide Y
Circular dichroism; Chou-Fasman calculation; Raman spectroscopy; Solid phase synthesis; Vasoconstrictor activity (Balasubramaniam, A. (997) 176)

Neurotoxin
Phospholipase A_2; Primary structure; Toxic site; Computer modeling; (*V. ammodytes ammodytes*); (Snake venom) (Križaj, I. (999) 198)

Neurotoxin binding site
Acetylcholine receptor; Thermal denaturation; Structure–function correlation; Cholesterol; Membrane fluidity (Artigues, A. (985) 325)

Neurotransmission
Ethanol; Acetylcholine receptor; Acetylcholinesterase; (*T. californica*) (Baker, G.M. (992) 333)

Neurotransmitter receptor
Glutamate binding, [^{3}H]-; Synaptic membrane (Yoneda, Y. (1012) 74)

Neutral cholesteryl ester hydrolase
Acid cholesteryl ester hydrolase; Cholesteryl oleyl ether; Esterastin; (Aortic smooth muscle cell) (Morin, R.J. (1004) 139)

Neutral glycolipid
Glycolipid structure; Small intestine; (Mouse) (Umesaki, Y. (1001) 157)

GDP-fucose : asialo $G_{M1}\alpha(1-2)$fucosyltransferase; Small intestinal mucosa; (Mouse) (Umesaki, Y. (1001) 163)

Neutral proteinase
Intervertebral disc; Proteoglycan; Proteoglycan degradation; (Dog) (Cole, T.-C. (990) 254)

Neutron diffraction
Phosphatidylinositol bilayer; Bilayer; Osmotic pressure; Lamellar repeat period; X-ray diffraction (McDaniel, R.V. (983) 241)

Dioleoylphosphatidylcholine bilayer; Dioleoylphosphatidylethanolamine; Rippled phase (Bradshaw, J.P. (987) 111)

Neutrophil
Membrane potential; Voltage gating; Sodium/potassium pump; (Human blood) (Majander, A. (980) 139)

NADPH oxidase; Membrane structure; Cytoskeleton; Membrane bound enzyme; Oxygen burst; Superoxide generation (Quinn, M.T. (987) 83)

Adenosine; Plasma membrane; Membrane viscosity; Receptor display (Cronstein, B.N. (987) 176)

Myocardial injury; Ischemia; Oxygen radical; Myeloperoxidase (Kukreja, R.C. (990) 198)

Schiff base oxidation; Phenylacetaldehyde; Myeloperoxidase; Chemiluminescence (Nascimento, A.L.T.O. (991) 50)

Tyrosine kinase; Protein purification; Inhibitor (Berkow, R.L. (997) 292)

Phospholipid; Arachidonic acid; Glycerophospholipid; $(n-3)$Fatty acid; Transacylation; (Human neutrophil) (MacDonald, J.I.S. (1004) 151)

Neutrophil adherence
Adherence inhibiting factor; Platelet granule; Protein purification; (Guinea pig) (Iwabuchi, K. (999) 183)

Neutrophil cytoplast
Leukocyte; Respiratory burst; Calcium ionophore; (Human) (Dahlgren, C. (1010) 41)

Neutrophil elastase
Pulmonary surfactant; Adult respiratory distress syndrome (Pison, U. (992) 251)

Newcastle disease virus
Sialidase; Hemagglutinin-neuraminidase; Protein M (García-Sastre, A. (999) 171)

***n* −3 fatty acid**
Fish oil; Linseed oil; Triacylglycerol; Hypotriglyceridemia; (Rat) (Garg, M.L. (1006) 127)

Nicardipine
Verapamil; Calcium ion channel; (Barnacle muscle fiber) (Xie, H. (1014) 207)

Nickel
Hydrogenase; Redox titration; Enzyme activity; (*M. thermoautotrophicum*) (Coremans, J.M.C.C. (997) 256)

Nicotinate
Proton dependency; Ferric leghemoglobin (Atanasov, B.P. (998) 80)

Nicotinic acetylcholine receptor
Vesicle; Micelle; Octyl glucoside; Phosphatidylcholine; Protein reconstitution; Protein purification; Acetylcholine receptor (Schürholz, T. (986) 225)

Acetylcholine receptor; Ethanol; Cation flux; Desensitization; (*Torpedo* electroplax) (Forman, S.A. (987) 95)

Niemann-Pick C Disease
Dimethyl sulfoxide; LDL; Lipoprotein cholesterol (Mackie, E.J.B. (1006) 219)

Niemann-Pick type C fibroblast
Intracellular transport; Cholesterol oxidase; Sphingomyelinase; LDL; Cholesterol esterification (Slotte, J.P. (1005) 303)

Nifedipine
Tubulin, T-; Protein, 60 kDa; Antibody; Calcium ion channel; (Heart cell beating) (Chatterjee, D. (984) 104)

Nifedipine radical
Phosphatidylcholine peroxidation; Spin trapping; Calcium blocker inhibition; Stobadine inhibition (Ondriaš, K. (1003) 238)

Nigericin
Tentoxin; Electron transport; Energy dissipation; (Spinach leaf) (Quick, P. (974) 282)

Hypoxia; Iron absorption; Valinomycin; Glucose uptake; (Mouse duodenum) (Raja, K.B. (984) 262)

NIII
Protein kinase; Phosphorylation; Nucleus; Casein kinase (Friedrich, T.D. (992) 41)

Nitracrine
DNA damage; DNA cytotoxicity; DNA-protein crosslink; (Human cells); (HeLa cell culture) (Szmigiero, L. (1008) 339)

***p*-Nitrate**
C1 esterase; Acrosin; Substrate specificity (Skoog, M.T. (996) 89)

Nitrate uptake
Pump and leak mechanism; Solute accumulation control; Cyanate inhibition; (*C. caldarium*) (Fuggi, A. (974) 141)

Divalent cation; Manganese; Glutamine synthetase; Enzyme regulation; (*A. chroococcum*) (Ruiz, M.T. (993) 36)

Nitrobenzylthioinosine
Nucleoside transport protein; Adenosine; Photoaffinity labeling; (Calf lung) (IJzerman, A.P. (979) 153)

Nitrogenase
Activating enzyme; Iron protein; Nitrogen fixation; (*A. brasilense*) (Ljungström, E. (994) 210)

Nitrogenase regulation
Bacterial photosynthesis; Nitrogen fixation; Carbon/nitrogen balance; (*Rb. capsulatus*) (Moreno-Vivián, C. (977) 297)

Nitrogen fixation
ATP synthesis; Hydrogen oxidation; Electron transport; Leghemoglobin (O'Brian, M.R. (974) 229)

Bacterial photosynthesis; Nitrogenase regulation; Carbon/nitrogen balance; (*Rb. capsulatus*) (Moreno-Vivián, C. (977) 297)

Affinity chromatography; Glutamine synthetase; (*R. rubrum*) (Soliman, A. (994) 138)

Activating enzyme; Iron protein; Nitrogenase; (*A. brasilense*) (Ljungström, E. (994) 210)

Nitrogen ligand
Iron-sulfur cluster; Cytochrome bc_1; Rieske protein; (Bovine heart) (Powers, L. (975) 293)

Nitrophenyl ester
Cholesterol esterase; Fluorescein dilaurate; Tetrameric enzyme molecule; Rhodamine 6G; (Human pancreas) (Meyer, J.G. (1002) 89)

Nitroprusside
cyclic GMP; Fluoroaluminate; Calcium ion flux; Protein kinase C; (Human platelet) (Deana, R. (1014) 203)

Nitrosylhemoglobin
R and T conformation; ESR; (Human); (Bovine) (Bhuyan, A.K. (997) 36)

Nitroxide
ESR; Oxygen, intracellular; Selective localization; Aminoxyl; Nitroxyl (Hu, H. (1014) 211)

Nitroxide metabolism
Oxygen; Ascorbate; ESR; (Rat hepatocyte) (Iannone, A. (991) 90)

Nitroxide spin label
Reduction; Oxidation; Hydroxylamine; Tempone, ^{15}N perdeuterated (Chen, K. (992) 131)

Nitroxyl
ESR; Oxygen, intracellular; Selective localization; Nitroxide; Aminoxyl (Hu, H. (1014) 211)

NK-529
Phase separation; Lipophile; Bilayer; Fluorescence; Cyanine dye (Yu, B.-Z. (980) 15)

NMR
Sickle red cell; Water exchange (Fung, L.W.-M. (982) 167)

Cellular senescence; Oligosaccharide; Binding affinity (Busse, S.C. (984) 183)

Phospholipid; *n*-Alcohol; Melittin; Permeability; Vesicular membrane (Kaszuba, M. (985) 106)

Gramicidin A; Lipid bilayer (Cornell, B.A. (985) 229)

Bleomycin; Ion-bleomycin complex; Mössbauer; ESR (Levy, A. (991) 97)

Cytochrome c_4; Redox property; ESR; MCD; (*A. vinelandii*) (Gadsby, P.M.A. (994) 37)

Ribonuclease; Thermal unfolding; Denaturation; Trichloroacetic acid treatment; (Bovine pancreas) (Sagar, A.J. (995) 144)

α-Amylase; Glycosidic bond hydrolysis; Covalent enzyme intermediate; Enzyme mechanism; Cryological enzymology; (Porcine pancreas) (Tao, B.Y. (995) 214)

Thrombolysis; t-PA; Fibrin; Compartmentalized water; Plasminogen activator (Azoury, R. (995) 295)

Lactoperoxidase; Aromatic substrate; Substrate binding; Optical difference spectroscopy (Modi, S. (996) 214)

Phospholipase A_2 protection; Transferred NOE; Active site (Williamson, M.P. (997) 9)

Stereospecificity; Glyceraldehyde-3-phosphate dehydrogenase; (Spinach chloroplast) (Levy, L.M. (997) 331)

Deuteration; NAD(P)^{2}H; Dehydrogenase stereospecificity; EI-MS (Ottolina, G. (998) 173)

Leu-enkephalin; Solution conformation; Energy calculation; Overhauser effect (Vesterman, B. (998) 204)

Inositol 1-phosphatase kinetics; Kinetics; Inositol phosphate metabolism; Inositol 1,3,4-trisphosphate; Inositol 3,4-bisphosphate; Inositol 1,3,4,5-tetrakisphosphate (Hansen, C.A. (1001) 134)

Lipoprotein; Malignancy; Lipemia (Verdery, R.B. (1006) 287)

Porphyrin–RNA interaction; tRNA structure; DNA (Birdsall, W.J. (1007) 176)

Vascular smooth muscle; (Trimethylsilyl)propanesulfonic acid; NMR frequency marker (Clark, J.F. (1014) 235)

Inositol phosphate; Mass spectrometry (Palmer, S. (1014) 239)

NMR, ^{13}C-
Membrane vesicle; Unilamellar vesicle; Cholesterol; Fluorescence polarization; NMR, ^{1}H-; Phospholipid bilayer (Bhakuni, V. (982) 216)

Methanogenic bacterium; NMR, ^{15}N-; β-Aminoglutaric acid; (*M. thermolithotrophicus*) (Robertson, D.E. (992) 320)

Oligosaccharide, neutral; Galactosyllactose; Carbohydrate structure; (Ovine colostrum) (Urashima, T. (992) 375)

Valine-tRNA synthetase; $tRNA_1^{Val}$; tRNA–protein interaction; Contact site; (*E. coli*); (*B. stearothermophilus*) (Schweizer, M.P. (1008) 293)

NMR, $^{35}Cl^-$-
Hemoglobin; Anion binding; (Dromedary) (Lundberg, P. (999) 12)

NMR, ^{19}F-
Fluorouracil metabolism; Metabolic pathway; (*E. coli*) (Lee, K.R. (1011) 12)

NMR frequency marker
NMR; Vascular smooth muscle; (Trimethylsilyl)propanesulfonic acid (Clark, J.F. (1014) 235)

NMR, H^+
Hemoglobin A; Met-azido derivative; Subunit assembly (Yamamoto, Y. (996) 187)

NMR, ^{1}H-
Luteinizing hormone/human chorionic gonadotropin receptor; Cholesteryl ester; Membrane fluidity (Kolena, J. (979) 279)

Membrane vesicle; Unilamellar vesicle; Cholesterol; Fluorescence polarization; NMR, ^{13}C-; Phospholipid bilayer (Bhakuni, V. (982) 216)

Des-(B26–B30)-insulin; Two dimensional COSY (Hua, Q.-X. (994) 114)

Pituitary bovine growth hormone; Histidine residue (MacKenzie, N.E. (994) 166)

Adrenodoxin; Aromatic region (Greenfield, N.J. (995) 246)

Neuropeptide head activator; Nuclear Overhauser effect (Saffrich, R. (997) 144)

L-Asparaginase; Histidine; Tyrosine; Chemical modification; (*E. coli*) (Bagert, U. (999) 36)

Glycolipid; Phenolic mycoside; (*M. tuberculosis*) (Daffé, M. (1002) 257)

Liposome; Archaebacterium; Fast atom bombardment mass spectrometry; Membrane morphology (Yamauchi, K. (1003) 151)

Nucleotide structure; Conformational change; FT-IR; X-ray diffraction (Tajmir-Riahi, H.-A. (1009) 168)

NMR, ^{2}H-
Alkane–membrane interaction; Anesthesia; 'Cut-off' effect (Pope, J.M. (980) 69)

Local anesthetic; Tetracaine; Glyceroglycolipid (Auger, M. (981) 351)

Glycolipid headgroup; Membrane carbohydrate (Carrier, D. (983) 100)

Solid state NMR; (−)-Δ^9-Tetrahydrocannabinol; Cannabinoid orientation; Model membrane; Drug–membrane interaction (Makriyannis, A. (986) 141)

Cerebroside sulfate; Lignoceric acid; Phase transition (Jeffrey, K.R. (986) 241)

NMR, ^{39}K-
Ion transport; Phospholipid bilayer; Antibiotic M139603; Ionophore; NMR, ^{23}Na-; NMR, ^{7}Li- (Riddell, F.G. (984) 6)

NMR, ^{7}Li-
Ion transport; Phospholipid bilayer; Antibiotic M139603; Ionophore; NMR, ^{23}Na-; NMR, ^{39}K- (Riddell, F.G. (984) 6)

NMR, ^{15}N-
Methanogenic bacterium; NMR, ^{13}C-; β-Aminoglutaric acid; (*M. thermolithotrophicus*) (Robertson, D.E. (992) 320)

NMR, ^{23}Na-
Ion transport; Phospholipid bilayer; Antibiotic M139603; Ionophore; NMR, ^{39}K-; NMR, ^{7}Li- (Riddell, F.G. (984) 6)

NMR, ^{31}P-; Bacterial membrane; Ion transport; Monensin; (*S. faecalis*) (Delort, A.-M. (1013) 11)

NMR, ^{31}P-
Gramicidin; Bilayer thickness; Hexagonal H_{II} phase formation; Small angle X-ray diffraction; Lipid polymorphism (Killian, J.A. (978) 341)

Dielaidoylphosphatidylethanolamine; Phase behavior; Hexagonal H_{II} phase; *n*-Alkanol; Spectrophotometry (Veiro, J.A. (979) 251)

Clathrin; Coated vesicle; Lipid–protein interaction; ESR; Fluorescence anisotropy (Privat, J.-P. (979) 257)

Bacteriorhodopsin; Freeze-fracture; Lateral phase separation; Protein aggregation; Dimyristoylphosphatidylcholine; Electron microscopy; (*H.halobium*) (Sternberg, B. (980) 117)

Polyene macrolide; Large unilamellar vesicle; Antifungal antibiotic (Hervé, M. (980) 261)

Cardiolipin; Diphosphatidylglycerol; Non-lamellar phase; Hexagonal H_{II} phase (Sankaram, M.B. (980) 389)

Phosphatidylserine; Unsaturated fatty acid chain; Magnesium ion complex; Hydration; Fourier transform infrared spectroscopy (Casal, H.L. (982) 228)

Lipopolysaccharide-low density lipoprotein complex; Phospholipid packing; Toxin inactivation; Hyperlipidemia; ESR; Ultracentrifugation; Fluorescence; (Human) (Victorov, A.V. (984) 119)

Hepatotoxicity; Carbon tetrachloride; Bromotrichloromethane; Halocarbon; Hepatotoxin (Towner, R.A. (993) 92)

Freeze trapping; Yeast; (*S. cerevisiae*) (Tanaka, A. (993) 280)

Creatine kinase equilibrium; Creatine; Cyclocreatine (LoPresti, P. (998) 317)

Proton relaxation; Nuclear Overhauser effect; Erythrocyte; (Human) (Monti, J.-P. (1010) 210)

Magnesium ion, intracellular; Hexokinase deficiency; Pyruvate kinase deficiency; (Human red blood cell) (Ouwerkerk, R. (1010) 294)

Polyphosphate; Phosphate efflux; (*S. Syringae*) (Reidl, H.H. (1010) 325)

Photophosphorylation; Chromatophore; (*C. vinosum*) (Ohta, M. (1011) 33)

Fructose metabolism; Energy metabolism regulation (Karczmar, G.S. (1012) 121)

ATPase, Na^+/K^+-; Non-equilibrium; Phosphorylation potential; (Human erythrocyte) (Petersen, A. (1012) 267)

NMR, ^{23}Na-; Bacterial membrane; Ion transport; Monensin; (*S. faecalis*) (Delort, A.-M. (1013) 11)

pH, intracellular; Fluorescent probe; (Crab egg) (Goudeau, M. (1014) 14)

NMR, protein
Plasminogen; Kringle 4 structure; Antifibrinolytic; Photo-CIDNP experiment; Protein NMR (De Marco, A. (994) 121)

NMR, two dimensional
Myoglobin; Phosphine trimethyl; Amino acid assignments (Simonneaux, G. (999) 42)

β-Strand; Model peptide; Dynorphin; Amphiphilic structure (Vaughn, Jr., J.B. (999) 135)

Non-bilayer
Lipid polymorphism; Fluorescence; Cardiolipin; Hexagonal H_{II} phase (Stubbs, C.D. (986) 89)

Noncompetitive blocker
Acetylcholine receptor; Channel conformation; Model membrane (Furois-Corbin, S. (984) 339)

Nonenzymatic glycosylation
THP-1; Leukemia cell; Aldehyde modified protein; Scavenger receptor (Takata, K. (986) 18)

Diabetes mellitus; Activity; Fluorescence (Hall, P.K. (993) 217)

Non-equilibrium
ATPase, Na^+/K^+-; Phosphorylation potential; NMR, ^{31}P-; (Human erythrocyte) (Petersen, A. (1012) 267)

Non-equilibrium thermodynamics
Thermodynamic efficiency; Chemostat; Growth yield; Growth model; (*P. oxalaticus* OX1) (Rutgers, M. (973) 302)

Fluid secretion; Pancreas model; Control analysis; Thermodynamics (Kuijpers, G.A.J. (984) 71)

Nonesterified fatty acid
Lipid peroxidation; Inhibition; Fatty acid; (Rat microsome) (Balasubramanian, K.A. (1003) 232)

Nonferrous metal
Phytoferritin; Metal binding; Synthetic iron core; Ferritin (Sczekan, S.R. (990) 8)

Nonheme iron
Cytochrome *b*; Bacterioferritin; (*N. winogradskyi*) (Kurokawa, T. (976) 135)

Nonhistone protein
High mobility group protein; Chromatin–protein interaction; (Calf thymus) (Bernués, J. (1008) 52)

Protein degradation; Nuclear translocation; Epidermal growth factor; DNA synthesis; (Monkey kidney cell) (Polet, H. (1013) 279)

Nonhomologous recombination
Transformation; ribosomal DNA sequence; Nontranscribed spacer; DNA integration; (*N. crassa*) (Russell, P.J. (1008) 243)

Nonionizing radiation
Transcription (Goodman, R. (1009) 216)

Non-lamellar phase
Cardiolipin; Diphosphatidylglycerol; NMR, ^{31}P-; Hexagonal H_{II} phase (Sankaram, M.B. (980) 389)

Non-ohmic behavior
Ion leak; Energy transducing membrane; Permeability coefficient; Electrical gradient; Flux voltage equation (Garlid, K.D. (976) 109)

Non-photochemical quenching
Chlorophyll fluorescence; High energy state; Photoinhibition; Relaxation kinetics; State transition (Hodges, M. (974) 289)

Chlorophyll; Fluorescence quenching; Quantum yield; Photosynthesis; (Barley) (Quick, W.P. (977) 287)

Nonpolar
Sulfhydryl; Sorbitol dehydrogenase; Interaction; *N*-Alkylmaleimide (Beier, K.H. (997) 236)

Nonpolar solvent
Glutathione reductase activity; Reverse micellar enzymology; Surfactant (Kumar, A. (996) 1)

Nonspecific inhibitor
Phospholipase A_2; Interfacial catalysis; Substrate specificity; Bilayer; Membrane fluidity (Jain, M.K. (1003) 91)

Nonspecific lipid transfer protein
Sterol carrier protein 2; Subcellular distribution; Peroxisome; (Rat liver); (Rat adrenal gland) (Van Amerongen, A. (1001) 243)

Sterol carrier protein 2; Cholesterol; Oxysterol derivative; Lipid monolayer (Van Amerongen, A. (1004) 36)

Nontranscribed spacer
Transformation; ribosomal DNA sequence; DNA integration; Nonhomologous recombination; (*N. crassa*) (Russell, P.J. (1008) 243)

Northern blot
Cytochrome *c* oxidase; mitochondrial RNA; Lymphocyte maturation (Bustelo, X.R. (977) 341)

Northern blotting
Lymphocyte activation; Eukaryotic differentiation; Mitogen stimulation; Poly(ADP-ribose) polymerase; (Human) (McNerney, R. (1009) 185)

Nuclear concentration
Anthracycline; Kinetics; Fluorescence; (Human lymphocyte) (Tarasiuk, J. (1013) 109)

Nuclear envelope
Lamin A; Lamin C; cDNA cloning; Nucleotide sequence; Amino acid sequence homology; (Mouse cDNA library) (Riedel, W. (1008) 119)

Nuclear location signal
Signal sequence; Nuclear protein localization; Nuclear pore; Active transport (Roberts, B. (1008) 263)

Nuclear macromolecule
Lipid peroxidation; Nuclear membrane; DNA adduct (Vaca, C.E. (1001) 35)

Nuclear matrix
Phospholipase A_2; Polyphosphoinositide; (Rat ascites hepatoma) (Tamiya-Koizumi, K. (1002) 182)

DNA synthesis; Okazaki fragment; (*P. polycephalum*) (Shioda, M. (1007) 254)

Transactivating protein; viral mRNA; HIV-1 (Müller, W.E.G. (1008) 208)

Nucleoid; DNA synthesis; DNA chain elongation (Collins, J.M. (1009) 264)

Nuclear membrane
5α-Reductase; Solubilization; (Rat ventral prostate) (Enderle-Schmitt, U. (987) 21)

Lipid peroxidation; Nuclear macromolecule; DNA adduct (Vaca, C.E. (1001) 35)

Nuclear Overhauser difference spectroscopy
Anesthesia theory; Vesicle membrane; Interface; Two-dimensional nuclear Overhauser effect; Hydrophyl–hydrophobe balance (Yokono, S. (982) 300)

Nuclear Overhauser effect
NMR, ^{1}H-; Neuropeptide head activator (Saffrich, R. (997) 144)

NMR, ^{31}P-; Proton relaxation; Erythrocyte; (Human) (Monti, J.-P. (1010) 210)

Nuclear pore
Nuclear location signal; Signal sequence; Nuclear protein localization; Active transport (Roberts, B. (1008) 263)

Nuclear protein
Poly(ADP-ribosylation); Spermatogenesis; (Rat) (Quesada, P. (1007) 167)

Nuclear protein localization
Nuclear location signal; Signal sequence; Nuclear pore; Active transport (Roberts, B. (1008) 263)

Nuclear translocation
Non histone protein; Protein degradation; Epidermal growth factor; DNA synthesis; (Monkey kidney cell) (Polet, H. (1013) 279)

Nuclease
DNA endonuclease; DNA repair; DNA damage; Ultraviolet light; (Spinach) (Doetsch, P.W. (1007) 309)

Nucleation
Cholesterol; (Phospholipid vesicle); (Bile) (Peled, Y. (1003) 246)

Nucleic acid–protein crosslinking
Alkylating tRNA derivative; Phenylalanyl-tRNA synthetase; Chlorotetrolic acid ester; Adenine analog (Roques, P. (1009) 99)

Nucleic acid sequence
Protein phosphatase; cDNA cloning; Peptide mapping; Amino acid sequence; (Rabbit liver) (Cohen, P.T.W. (1008) 125)

Nucleic acid sequence, location in genome
Long interspersed repeat (L1); LINE 1; (Rat) (White, J.W. (1009) 287)

Nucleoid
DNA binding protein; Histone-like protein; Enzyme purification; (*B. subtilis*) (Salti, V. (1009) 161)

Nuclear matrix; DNA synthesis; DNA chain elongation (Collins, J.M. (1009) 264)

Nucleolin
Casein kinase II; Cell growth; Enzyme activity; (Human fibroblast) (Schneider, H.R. (1014) 98)

Nucleoside-diphosphate kinase
Contact site; Mitochondrion; Peripheral kinase; Hexokinase; Creatine kinase (Adams, V. (981) 213)

Nucleoside salvage
Nucleoside transport; Uridine; Phosphorylation; (Mouse spleen cell) (Plagemann, P.G.W. (981) 315)

Nucleoside transport
Nucleoside salvage; Uridine; Phosphorylation; (Mouse spleen cell) (Plagemann, P.G.W. (981) 315)

Reconstitution; (Human erythrocyte) (Tse, C.-M. (985) 343)

Formycin B; Cultured mammalian cell; (Human erythrocyte) (Plagemann, P.G.W. (1010) 7)

Nucleoside transport protein
Adenosine; Photoaffinity labeling; Nitrobenzylthioinosine; (Calf lung) (IJzerman, A.P. (979) 153)

Nucleoside triphosphate regulation
Liver glycogen-synthase phosphatase; Glycogen synthase activation; Glycogen particle enzyme (Gilboe, D.P. (991) 340)

Nucleosome assembly
High mobility group protein; (Pig thymus) (Waga, S. (1007) 209)

Nucleosome reconstitution
Long terminal repeat; Plasmid DNA; (Chicken histone); (Moloney murine leukemia virus LTR) (Kimura, T. (1007) 318)

5′-Nucleotidase
Undernutrition; Myelin; ATPase, Na^+/K^+-; Phospholipid fatty acid; Ganglioside; (Rat) (Shantharam, P. (982) 115)

Laminin; Fibronectin; (Chicken gizzard) (Stochaj, U. (992) 385)

Laminin receptor, 68 kDa; Glycosylation; Peptide map (Risse, G. (994) 258)

Glycerate 2,3-bisphosphate; (Rat tissue, Human tissue) (Bontemps, F. (997) 131)

Nucleotide
ATPase F_1; Yeast mutant; Beta subunit; Enzyme kinetics; Negative cooperativity; (*S. pombe*) (Falson, P. (975) 119)

Nucleotide analog
DNA polymerase; Chain terminator; Sugar moiety; DNA synthesis inhibition; (*S. acidocaldarius*); (Archaebacterium) (Chinchaladze, D.Z. (1008) 113)

Nucleotide binding
ATPase, F_1-; ADP binding, high affinity; Inhibitory site; (Bovine heart mitochondria) (Milgrom, Y.M. (975) 50)

Chloroplast; ATPase, H^+-; Enzyme activation; Photophosphorylation (Lohse, D. (976) 94)

Nucleotide binding site
ATPase, F_1-; Temperature dependence; Enzyme conformation; Fluorescence; Enzyme kinetics (Baracca, A. (976) 77)

Nucleotide composition
CpG content; HIV; HTLV 1/2 (Kypr, J. (1009) 280)

Nucleotide diphosphate
Phosphatidic acid phosphatase; Triacylglycerol synthesis; (Rat liver) (Berglund, L. (1002) 382)

Nucleotide phosphodiesterase
Phosphodiesterase; Ehrlich ascites carcinoma (Fukazawa, H. (991) 272)

Nucleotide sequence
Lung surfactant; SP-C; Amino acid sequence; Type II cell; Species homology; Surfactant protein (Fisher, J.H. (995) 225)

pnd$^+$ gene; Gene expression; Magnesium efflux; RNA degradation; (*E. coli*) (Sakikawa, T. (1007) 158)

Uricase; Peroxisomal targeting signal; (Rabbit liver) (Motojima, K. (1008) 116)

Nuclear envelope; Lamin A; Lamin C; cDNA cloning; Amino acid sequence homology; (Mouse cDNA library) (Riedel, W. (1008) 119)

cDNA cloning; Amine oxidase gene; Topogenic signal; Yeast microbody; (*H. polymorpha*) (Bruinenberg, P.G. (1008) 157)

Prolactin-like cDNA; cDNA; Molecular cloning; (Bovine placenta) (Tanaka, M. (1008) 193)

Growth hormone; Pregrowth hormone; cDNA cloning; Gene expression; (Ovine pituitary) (Warwick, J.M. (1008) 247)

Growth hormone; Amino acid sequence; Homology; (Salmon) (Sekine, S. (1009) 117)

Tyrosinase; Melanin synthesis; Albinism; (Human Liver) (Kikuchi, H. (1009) 283)

Recombinant DNA; Restriction endonuclease; Restriction-modification system; (*E. coli*) (Kossykh, V. (1009) 290)

Protein phosphatase; Calmodulin; cDNA cloning; Amino acid sequence; (Rabbit brain) (Da Cruz e Silva, E.F. (1009) 293)

Colorectal cancer; Ribosomal protein; Gene expression; Tumor marker; Growth regulation; (Human) (Chester, K.A. (1009) 297)

Nucleotide structure
Conformational change; FT-IR; NMR, ^{1}H-; X-ray diffraction (Tajmir-Riahi, H.-A. (1009) 168)

Nucleotide synthesis
Phosphoribosylpyrophosphate synthetase; Ribose-phosphate pyrophosphokinase; Tissue-specific expression; Testis-specific transcript; recombinant DNA; (rat tissue) (Taira, M. (1007) 203)

Nucleus
Protein kinase; Phosphorylation; Casein kinase; NIII (Friedrich, T.D. (992) 41)

Lipid peroxidation; Glutathione *S*-transferase (Tirmenstein, M.A. (995) 174)

Fatty acid binding protein; ELISA; Subcellular distribution; Mitochondrion; (Bovine heart) (Börchers, T. (1002) 54)

Amsacrine; Topoisomerase II-DNA complex; Topoisomerase II-DNA complex formation enhancing factor; (Murine mastocytoma cell) (Darkin, S.J. (1007) 295)

Nutrient bicarbonate effect
Membrane potential; Thiocyanate inhibition; (*R. pipiens* gastric fundus) (Schwartz, M. (979) 299)

Nutrient
Malic enzyme; Transcription; mRNA; Insulin; (Rat) (Katsurada, A. (1004) 103)

Nutrient stimulus
Insulin secretion; pH, cytosolic; Sodium ion–proton exchange; (Human insulinoma cells, HIT) (Lynch, A.M. (1012) 166)

O

Octanoic acid
Lauric acid; Myristic acid; Fatty acid oxidation; Mitochondrion; (Rat hepatocyte); (Peroxisome) (Christensen, E. (1004) 187)

Octyl glucoside
Hemoglobin; Liposome; Octyltetraoxyethylene; Blood surrogate; (Human blood) (Jopski, B. (978) 79)

Liposome stability; Cholesterol; Plasma protein (Liu, D. (981) 254)

Vesicle; Micelle; Phosphatidylcholine; Protein reconstitution; Protein purification; Acetylcholine receptor; Nicotinic acetylcholine receptor (Schürholz, T. (986) 225)

***n*-Octyl 1-*O*-β-D-glucopyranoside**
Alkyl pyranoside; Phase behavior; Liquid crystal; X-ray diffraction (Chung, Y.J. (985) 300)

Octyltetraoxyethylene
Hemoglobin; Liposome; Octyl glucoside; Blood surrogate; (Human blood) (Jopski, B. (978) 79)

Odorant
Olfactory response; Liposome; Ion dependence; Membrane potential (Nomura, T. (1005) 260)

O_2 evolution
Photosystem II; H_2O_2 formation; Sucrose effect; Catalase effect; (Spinach) (Wydrzynski, T. (973) 23)

Okadaic acid
Dinophysistoxin-1; Tumor promoter; Prostaglandin E_2; (Rat peritoneal macrophage) (Ohuchi, K. (1013) 86)

Okazaki fragment
Nuclear matrix; DNA synthesis; (*P. polycephalum*) (Shioda, M. (1007) 254)

Oleate metabolism
Phospholipase C; Phospholipase A_2; Arachidonic acid; 1-Oleoyl-2-acetyl-*sn*-glycerol; Ketogenesis; (Rat hepatocyte) (Chihara, M. (1012) 5)

1-Oleoyl-2-acetyl-*sn*-glycerol
Phospholipase C; Phospholipase A_2; Arachidonic acid; Ketogenesis; Oleate metabolism; (Rat hepatocyte) (Chihara, M. (1012) 5)

Olfactory response
Odorant; Liposome; Ion dependence; Membrane potential (Nomura, T. (1005) 260)

Olfactory second messenger
Adenylyl cyclase; (Rat); (Frog) (Lazard, D. (1013) 68)

Oligomer
Human interferon-β1; Monomer; Inactivation; Reactivation; Detergent (Utsumi, J. (998) 167)

Oligomeric enzyme
γ-Glutamyltransferase; Reversed micelle; Surfactant; Organic solvent (Kabanov, A.V. (996) 147)

Oligomerization
Glycolipid transfer protein; Sulfhydryl group; Intramolecular disulfide bond; Disulfide bond; Cupric ion; (Pig brain) (Abe, A. (985) 38)

Oligonucleotide-directed mutagenesis
Band 3 protein; cRNA expression; Inhibitor binding site; (*Xenopus* oocyte) (Bartel, D. (985) 355)

Oligonucleotide primer
Mitochondrial myopathy; mitochondrial DNA; S_1 nuclease; Polymerase chain reaction; Heteroduplex (Tanaka-Yamamoto, T. (1009) 151)

Oligosaccharide
Cellular senescence; Binding affinity; NMR (Busse, S.C. (984) 183)

Exoglucanase; Glycoprotein; (Yeast) (Ramírez, M. (990) 206)

Oligosaccharide, neutral
Galactosyllactose; Carbohydrate structure; NMR, ^{13}C-; (Ovine colostrum) (Urashima, T. (992) 375)

Oligosaccharide, *N*-linked
Gonadotroph primary culture; Lutropin biosynthesis; Castanospermine; Swainsonine; (Rat) (Hattori, M.-a. (992) 272)

Oncofetal transport factor
Transport protein; mRNA transport factor; RNA transport factor; Carcinogenesis; (Rat liver nuclei) (Schumm, D.E. (1009) 54)

Oncomodulin
Calcium binding protein; Parvalbumin; Gene organization; Gene regulation; Tissue-specific gene expression (Berchtold, M.W. (1009) 201)

One electron oxidation
Ligninase; Compound I; Compound II; Hydrogen peroxide; Veratryl alcohol; Potassium ferrocyanide; Pre-steady-state kinetics (Harvey, P.J. (994) 59)

Ontogeny
ATPase, H^+/K^+-; Gastric mucosa; Parietal cell; ATPase antibody; (Rat) (Hervatin, F. (985) 320)

Fatty acid binding protein; Glucose-6-phosphate dehydrogenase; Gestation; (Human fetal liver) (Das, T. (1002) 164)

Oocyte
Protein phosphorylation; mRNA binding protein; Maternal mRNA; (*Xenopus laevis*) (Cummings, A. (1014) 319)

Open channel noise
Gramicidin A; Channel block; Sodium ion transport; Proton transport (Heinemann, S.H. (987) 8)

Operon
Heat shock protein; Genomic DNA; *dnaK-dnaJ* deletion mutant; DNA; (*E. coli*) (Ohki, R. (1009) 94)

Opioid receptor
Sarcolemma; Phenylephrine; Isoproterenol (Ventura, C. (987) 69)

Opsin shift
Protonated Schiff base; Chromophore; Resonance Raman spectroscopy; Lipid–protein interaction; (Bacteriorhodopsin) (Pande, C. (973) 257)

Opsonin
Organ specific opsonin; Macrophage; Liposome; (Rat liver); (Rat spleen) (Moghimi, S.M. (984) 379)

Organ specific opsonin; Liposome; Macrophage; Phagocytosis; (Rat liver); (Rat spleen) (Moein Moghimi, S. (984) 384)

Optical absorption
Ribulose-bisphosphate carboxylase; Cobaltous ion; Transient intermediate (Brändén, R. (995) 75)

Optical cross section
Poisson distribution; Trap; Reaction center; Single turnover flash; Quantum requirement; Energy transfer; Fluorescence induction; Antenna, light-harvesting; Pigment protein (Mauzerall, D. (974) 119)

Optical difference spectroscopy
Lactoperoxidase; Aromatic substrate; Substrate binding; NMR (Modi, S. (996) 214)

Optical spectrum
Cytochrome oxidase; pH dependence (Fabian, M. (973) 414)

Optoacoustic spectroscopy
Photosynthesis; Energy storage; Energy transfer; Photosynthetic bacterium; (*Rsp. rubrum*) (Nitsch, C. (975) 88)

Order parameter
Phosphatidylcholine; Planar multibilayer; ESR; Spin label; Rotational dynamics (Korstanje, L.J. (980) 225)

Orellanine
Alkaline phosphatase isoenzyme; Epithelial cell culture; (LLC-PK_1); (Caco-2) (Ruedl, C. (991) 280)

Organic acid
Riboflavin deficiency; Mitochondrion; Peroxisome; Acyl-CoA; Flavoprotein; (Rat) (Veitch, K. (1006) 335)

Organic anion binding
Rose bengal; Fluorescence probe; Sinusoidal membrane vesicle; Canalicular membrane vesicle; (Rat liver) (Yachi, K. (978) 1)

Organic cation
Outer mitochondrial membrane; Membrane permeability; VDAC (Mannella, C.A. (981) 363)

Organic solvent
Fructose-1,6-bisphosphatase; Woodward's reagent K; Diethyl pyrocarbonate; Thioredoxin; Chaotropic anion (Prat-Gay, G. (973) 457)

Oligomeric enzyme; γ-Glutamyltransferase; Reversed micelle; Surfactant (Kabanov, A.V. (996) 147)

Organ specific opsonin
Opsonin; Macrophage; Liposome; (Rat liver); (Rat spleen) (Moghimi, S.M. (984) 379)

Opsonin; Liposome; Macrophage; Phagocytosis; (Rat liver); (Rat spleen) (Moein Moghimi, S. (984) 384)

Orientational effect
Phosphatidylcholine monolayer; Lateral protonic conduction; Magnetic field effect (Sakurai, I. (985) 347)

Orientation of membrane protein
Cytochrome b_5; Microsomal membrane protein; Protein *N*-acetylation (Ozols, J. (997) 121)

Origin mutant
Bacteriophage α3; Point mutation; Secondary structure; DNA sequence (Kodaira, K.-I. (1007) 359)

Origin of replication
DNA replication; Eukaryotic DNA replication (Umek, R.M. (1007) 1)

L-Ornithine
Pancreatic islet; L-Arginine; Polyamine; (Rat) (Malaisse, W.J. (1013) 133)

Pancreatic islet; L-Arginine; Polyamine; (Rat) (Blachier, F. (1013) 144)

Ornithine decarboxylase
Antizyme inhibitor; Antizyme; (Rat liver) (Kitani, T. (991) 44)

Phosphorylation; Dephosphorylation; (*T. pyriformis*) (Lougovoi, C.P. (996) 70)

mRNA accumulation; Liver regeneration; (Rat); (Mouse) (Hirvonen, A. (1007) 120)

Hyperthermia; mRNA; Ornithine decarboxylase mRNA; (Ehrlich ascites tumor cell) (Matsui-Yuasa, I. (1014) 225)

Ornithine decarboxylase mRNA
Ornithine decarboxylase; Hyperthermia; mRNA; (Ehrlich ascites tumor cell) (Matsui-Yuasa, I. (1014) 225)

Orotidine-5′-phosphate decarboxylase
Pyrazofurin; 6-Azauridine; Drug resistance; Osteoblastic cell; Adenosine kinase deficient cell; (Mouse) (Beidler, D.R. (1014) 101)

Orthophosphite inactivation
Phosphonoacetaldehyde hydrolase purification; Enzyme kinetics; (*P. aeruginosa* A 237) (Dumora, C. (997) 193)

Oscillation
Potassium ion efflux; Calcium ion; Caffeine; cyclic AMP; (*Dictyostelium*) (Aeckerle, S. (1012) 196)

Osmometry
Cytochrome oxidase; Enzyme latency; Energy coupling; Ionic strength; Mitochondrial inner membrane; (Rat liver mitochondria) (Sitaramam, V. (975) 252)

Osmoregulation
ATP; ADP; Adenine nucleotide content; Glycerol; (Alga); (*Dunaliella*) (Marengo, T. (976) 102)

Glycerol kinase; Yeast; Salt tolerance; (*D. hansenii*) (Nilsson, A. (991) 296)

Osmotic permeability
Reflection coefficient; Brush-border membrane; Light scattering; Refractive index; (Rat kidney) (Van der Goot, F. (979) 272)

Proximal tubule; Reflection coefficient; Light scattering; Membrane vesicle; (Rabbit kidney) (Van der Goot, F.G. (986) 332)

Osmotic pressure
Phosphatidylinositol bilayer; Bilayer; Lamellar repeat period; Neutron diffraction; X-ray diffraction (McDaniel, R.V. (983) 241)

Osmotic pressure shock
Electrofusion; Hypo-osmolar medium; Sorbitol; Albumin; Divalent cation; Hybrid; (Mammalian cell) (Schmitt, J.J. (983) 42)

Osmotic stress
Cryoprotection; Freeze-thaw damage, mechanical; Trehalose; Membrane permeability; (Spinach thylakoid) (Hincha, D.K. (987) 231)

Osmotic swelling
Equivalent pore radius; Reflection coefficient; Respiration; (Rat liver mitochondria) (Mathai, J.C. (976) 214)

Ossification
Chondroitin sulfate; Cartilage; Glycosaminoglycan (Harab, R.C. (992) 237)

Osteoblast
Collagen degradation; 1,25-Dihydroxyvitamin D-3; Plasminogen activator; Collagenase; Metalloproteinase; Tissue inhibitor of metalloproteinases; (Mouse) (Thomson, B.M. (1014) 125)

Osteoblastic cell
Pyrazofurin; 6-Azauridine; Drug resistance; Orotidine-5′-phosphate decarboxylase; Adenosine kinase deficient cell; (Mouse) (Beidler, D.R. (1014) 101)

Osteopontin
Phosphoprotein; Milk protein; Tumor cell; (Human) (Senger, D.R. (996) 43)

Ouabain
ATPase, Na^+/K^+-; Respiration; Thyroid hormone; (Hepatocyte) (Nobes, C.D. (976) 241)

Inhibitin; Bumetanide; Promyelocyte; Sodium efflux; (Human erythrocyte) (Morgan, K. (979) 53)

Ouabain binding
ATPase, Na^+/K^+-; ATP phosphohydrolase; Divalent cation; Rubidium-86 uptake; (Guinea-pig heart) (Hagane, K. (982) 279)

Ouabain-like factor, endogenous
Cardiac glycoside; Vanadate; Unsaturated fatty acid; ATPase, Na^+/K^+- (Hansen, O. (986) 130)

Outer membrane
Aluminium hydroxide; VDAC; Mitochondrion; Voltage dependence; Mitochondrial channel (Zhang, D.-W. (991) 68)

Outer mitochondrial membrane
Mitochondrial porin; Lipid bilayer membrane; Mitochondrial metabolism; (*Paramecium*) (Ludwig, O. (978) 319)

Membrane permeability; Organic cation; VDAC (Mannella, C.A. (981) 363)

Ovalbumin
Yolk; Embryogenesis; (White Leghorn hens) (Sugimoto, Y. (992) 400)

Overhauser effect
Leu-enkephalin; Solution conformation; Energy calculation; NMR (Vesterman, B. (998) 204)

Overlapping bands
Chlorophyll *a*; Chlorophyll *b*; Fluorescence anisotropy; Castor oil (Van Gurp, M. (973) 405)

Ovotransferrin
Metal binding site; Copper displacement; Iron (Xian-Xuan, C. (992) 160)

Oxazolone
4-Alkylidene oxazolone; Hydrolase; Active site; Fluorescence (Baese, H.-J. (990) 113)

Oxidant-pulse experiment
Catalytic unit; Proton pumping; Rate/pulse method; Cytochrome-*c* oxidase; Cytochrome-*c* reductase; Myxothiazol; Cyanide; (Rat liver mitochondria) (Moody, A.J. (973) 29)

Oxidation
Reduction; Nitroxide spin label; Hydroxylamine; Tempone, ^{15}N perdeuterated (Chen, K. (992) 131)

Human lens; γ-Crystallin; Hydrogen peroxide; Cataract; Photosensitizer; *N*-Formylkynurenine; Superoxide (Andley, U.P. (997) 284)

Oxidative damage
Lipid peroxidation; ATPase, Ca^{2+}-; Brush-border membrane; (Porcine small intestine) (Ohta, A. (984) 151)

Xanthine dehydrogenase; Xanthine oxidase; (Human); (Rabbit); (Brain); (Heart) (Wajner, M. (991) 79)

Copper; Iron; Ascorbate; Hemolytic anemia; Thalassemia; (Human red blood cell) (Shinar, E. (1014) 66)

Oxidative decarboxylation
Transamination; L-Isoleucine; L-Alloisoleucine; (Rat muscle) (Schadewaldt, P. (992) 115)

3,4-Dihydroxymandelic acid; Tyrosinase; 3,4-Mandeloquinone; Quinone methide; Pulse radiolysis (Bouheroum, M. (998) 57)

Oxidative injury
Iron; Glutathione; γ-Glutamylcysteine synthetase; Cysteine; (Mouse) (Ogino, T. (1006) 131)

Oxidative phosphorylation
Hexokinase; Tumor cell mitochondria; Glycolysis; Adenylate kinase; (HT29 cell) (Gauthier, T. (975) 231)

Oxidative phosphorylation
Mitochondrial ATPase; Uncoupler; Inhibitor; Almitrine; (Yeast) (Rigoulet, M. (975) 325)

Slip; Leak; Membrane permeability; Stoichiometry change (Murphy, M.P. (977) 123)

Oxidative stress
tert-Butylhydroperoxide; Alkoxyl radical; Peroxyl radical; (Human erythrocyte) (Van der Zee, J. (980) 175)

Oxidoreductase
Calcium activated potassium ion channel; Potassium ion channel; Atebrin; Menadione; Lead; (Human erythrocyte) (Fehlau, R. (978) 37)

Oxime
Aryl sulfotransferase; Sulfation; Aromatic hydroxylamine (Mangold, J.B. (991) 453)

Oxygen
Nitroxide metabolism; Ascorbate; ESR; (Rat hepatocyte) (Iannone, A. (991) 90)

Oxygenase
p-Hydroxybenzoate hydroxylase; Flavoprotein; Hydroxylase (Entsch, B. (999) 313)

Oxygen binding
Etioheme; Myoglobin; Coordination structure; Heme recognition (Neya, S. (996) 226)

Oxygen burst
Neutrophil; NADPH oxidase; Membrane structure; Cytoskeleton; Membrane bound enzyme; Superoxide generation (Quinn, M.T. (987) 83)

Oxygen concentration
Liposome; Cat1; Superhyperfine structure; ESR (Chan, H.-C. (1014) 141)

Oxygen consumption
Cytochrome; Azide; Inhibitor resistant respiration; (Frog); (Skate) (Kidder III, G.W. (973) 59)

Oxygen evolution
Crosslinking; Nearest neighbor relationship; Extrinsic 33 kDa protein; Mn cluster (Enami, I. (973) 35)

Photosynthesis; Thylakoid membrane; Photosystem II; Diuron binding (Chow, W.S. (973) 105)

Photosystem II; Cyanobacterium; (*P. laminosum*) (Rolfe, S.A. (973) 220)

Photosynthesis; Manganese; Histidine; D1 protein; (Wheat) (Tamura, N. (973) 281)

Manganese; Electron spin echo spectroscopy; Spin lattice relaxation time; Photosystem II (Evelo, R.G. (973) 428)

Calcium extraction; S state; Thermoluminescence; ESR; Photosynthesis (Ono, T.-a. (973) 443)

Photosynthesis; Manganese; ESR (Andréasson, L.-E. (973) 465)

Photosynthesis; Manganese; D1 protein; Histidine; *Scenedesmus* mutant (LF-1) (Seibert, M. (974) 185)

Photosystem II; Reaction center; Photosynthesis; (*E. gracilis*) (Mizobuchi, A. (977) 26)

Photosystem II; Extrinsic protein; Light harvesting chlorophyll II; Calcium; (Spinach) (Enami, I. (977) 33)

S state; Hydroxylamine; Greening; Chloroplast (Franck, F. (977) 215)

Protein, 33 kDa; Photosystem II; Photosynthesis; (Spinach) (Eaton-Rye, J.J. (977) 219)

Extrinsic protein; Photosystem II; Photosynthesis; (Spinach) (Miyao, M. (977) 315)

Oxygen evolving complex
S-state system; Stabilizer; Filamentous cyanobacterium; Photosynthesis (Bader, K.P. (975) 399)

Oxygen evolving system
Electron transport; Calcium channel blocker; Chloroplast (Semin, B.K. (975) 239)

Oxygen free radical
NAD(P)H oxidoreductase; Anion superoxide formation; (Radish plasmalemma) (Vianello, A. (980) 202)

Oxygen intermediate
Cytochrome oxidase; Flow flash spectrophotometry; Electron transfer; pH dependence; Temperature dependence (Oliveberg, M. (977) 322)

Oxygen, intracellular
ESR; Selective localization; Nitroxide; Aminoxyl; Nitroxyl (Hu, H. (1014) 211)

Oxygen radical
Neutrophil; Myocardial injury; Ischemia; Myeloperoxidase (Kukreja, R.C. (990) 198)

Furocoumarin; Psoralen; Angelicin; Glutathione; Photooxidation; Melanin pigmentation; Ultraviolet irradiation (D'Ischia, M. (993) 143)

Oxysterol derivative
Nonspecific lipid transfer protein; Sterol carrier protein 2; Cholesterol; Lipid monolayer (Van Amerongen, A. (1004) 36)

Oxytocin
Phosphoinositide; Adipocyte; Adenosine; Catecholamine; Insulin (Lee, H.-M. (1013) 73)

P

***P*-450 cloning**
Cytochrome $P\text{-}450_{BM\text{-}1}$; DNA sequence; Amino acid sequence (He, J.-S. (1009) 301)

P-700
Photosystem I; Reaction center; Core protein; Iron-sulfur center; Chaotropic agent; (*Synechococcus* PCC 6301); (*A. nidulans*) (Parrett, K.G. (973) 324)

Absorption spectroscopy; Chlorophyll protein; Chloroplast; Electron microscopy; Fluorescence emission; Immunocytochemistry (Simpson, D.J. (975) 164)

Photosystem I; Differential absorption coefficient; Detergent; (*S. elongatus*) (Sonoike, K. (976) 210)

P-680
Electron transfer; Photosystem II; (*Synechococcus* sp.) (Gerken, S. (977) 52)

t-PA
Thrombolysis; Fibrin; NMR; Compartmentalized water; Plasminogen activator (Azoury, R. (995) 295)

PACS
Liposome; Intracellular stability; Cholesterol; Gamma-ray perturbed angular correlation spectroscopy; (Kupffer cell) (Roerdink, F.H. (980) 234)

PAF
Membrane perturbation; Ion channel formation (Sawyer, D.B. (987) 129)

Platelet; PAF synthesis; Leukocyte (Sturk, A. (993) 148)

Aristolochic acid; Phospholipase A_2; Arachidonic acid; (Human neutrophil) (Rosenthal, M.D. (1001) 1)

Lipid mediator; HPLC; (*S. gairdneri*); (Trout spleen) (Turner, M.R. (1004) 49)

Arachidonic acid; Acetyltransferase; (Bovine neutrophil) (Remy, E. (1005) 87)

Glycerolipid metabolism; Dietary fatty acid; Fatty acid; Icosanoid; (Rat kidney) (Yeo, Y.K. (1006) 9)

Mast cell; Acetyl hydrolase (Triggiani, M. (1006) 41)

Prostacyclin; Selenium; Cyclooxygenase; Glutathione peroxidase; (Human endothelial cells) (Hampel, G. (1006) 151)

Leukotriene production; PAF antagonist; Phospholipid mediator; (Human monocyte) (Fauler, J. (1013) 80)

Isoproterenol; Sodium ion/calcium ion exchange; Platelet aggregation (Kester, M. (1014) 195)

PAF-acether
Polymorphonuclear neutrophil; Cell concentration; pH, extracellular; (Human) (Leyravaud, S. (1005) 192)

PAF analog
Alkylmethylglycerophosphocholine; Antineoplastic phospholipid; Plasma membrane (Vallari, D.S. (1006) 250)

PAF antagonist
Leukotriene production; PAF; Phospholipid mediator; (Human monocyte) (Fauler, J. (1013) 80)

PAF synthesis
PAF; Platelet; Leukocyte (Sturk, A. (993) 148)

Palmitic acid
Fatty acid metabolism; Erucic acid; (Pig heart) (Sauer, F.D. (1004) 205)

Palmitoylation
Platelet protein; Platelet activation; Protein; Fatty acylation (Huang, E.M. (1011) 134)

Palmitoylcarnitine
Membrane fluidity; Spin label; (Human erythrocyte) (Watanabe, H. (980) 315)

L-Carnitine; Membrane fluidity; Spin label; Free fatty acid metabolism; Erythrocyte; (Human) (Kobayashi, A. (986) 83)

Panaxynol
Ginsenoside; Platelet inhibition; Thromboxane formation; (*P. ginseng*) (Teng, C.-M. (990) 315)

Pancreas
Colipase; Monoclonal antibody; Immunoinactivation; Antigenic specificity (La Fournière, L. (998) 158)

Vasoactive intestinal peptide; Peptide structure; (Cod); (Teleost) (Thwaites, D.T. (999) 217)

Phospholipase A_2; Duodenum; Biliary lipoprotein; (Human) (Kozumplik, V. (1002) 395)

Pancreas model
Fluid secretion; Control analysis; Nonequilibrium thermodynamics; Thermodynamics (Kuijpers, G.A.J. (984) 71)

Pancreatic acinar cell
Amino acid transport; Sodium ion coupled transport; Whole-cell recording (Von Blankenfeld, G. (980) 385)

Pancreatic calculi
Pancreatic stone protein; Amino acid sequence; Amino terminal 5-oxoproline; *O*-Glycosyl bond cleavage; Carbohydrate content; (Human) (De Caro, A.M. (994) 281)

Pancreatic elastase
Elastase substrate; Elastase inhibitor; Substrate activation; Substrate inhibition; (Rat); (Pig) (Bieth, J.G. (994) 64)

Proteinase inhibitor; Inter-α-trypsin inhibitor; PMN-granulocytic elastase (Rasp, G. (999) 335)

Pancreatic islet
Sodium; Depolarization; Glucose; Tolbutamide; (Rat) (Ali, L. (1010) 283)

Insulin release; Priming; Calcium ion; (Rat) (Chalmers, J.A. (1011) 46)

L-Arginine; L-Ornithine; Polyamine; (Rat) (Malaisse, W.J. (1013) 133)

L-Arginine; L-Ornithine; Polyamine; (Rat) (Blachier, F. (1013) 144)

Pancreatic islet cell
Potassium ion channel; Divalent cation activation; Voltage activation; Hydrogen ion activation; Cation selectivity (Tabcharani, J.A. (982) 62)

Phosphoglucoisomerase; Phosphomannoisomerase; Erythrocyte; Parotid cell (Malaisse-Lagae, F. (998) 118)

Pancreatic lipase
Active site; Acyl enzyme; Lysine (Kaimal, T.N.B. (999) 331)

Pancreatic spasmolytic polypeptide
Amino acid sequence; Revision; pS2 (Rose, K. (998) 297)

Pancreatic stone protein
Pancreatic calculi; Amino acid sequence; Amino terminal 5-oxoproline; *O*-Glycosyl bond cleavage; Carbohydrate content; (Human) (De Caro, A.M. (994) 281)

Papain
Tripeptide transport; Brush-border membrane vesicle; Sodium gradient; (Human jejunum) (Wilson, D. (986) 123)

N-Ethylbenzisoxazolium ion; *N*-Ethylsalicylamide ester; Ammonolysis (Kooistra, C. (997) 115)

Papain proteolysis
Bacteriorhodopsin; Isoelectric focusing; Isoelectric form; Molecular weight form; (*H. halobium*) (Ross, P.E. (991) 134)

Paracellular transport
Fluid secretion; Cation permeability; (Rabbit pancreas) (Kuijpers, G.A.J. (984) 63)

Paracrine effect
Tissue corticotropin releasing factor; Leydig cell; Immunoaffinity column chromatography; (Testis) (Audhya, T. (995) 10)

Paraflagellar swelling
Microspectrophotometry; Rhodopsin; (*E. gracilis*) (Gualtieri, P. (993) 293)

Paraquat
Radical formation; Adriamycin; Breast tumor cell; (Human) (Sinha, B.K. (1010) 304)

Parasitized mouse red blood cell
Immunoliposome; Chloroquine; In vivo model; Drug targeting; (Rat) (Peeters, P.A.M. (981) 269)

Parathyroid hormone
Peptide degradation; UMR-106 cell; Chymotrypsin; Endopeptidase; (Rat) (Yamaguchi, T. (1010) 177)

Pardaxin
Amino acid sequence, terminal; Synthetic peptide; Model membrane; Phosphatidylcholine; Phosphatidylserine (Saberwal, G. (984) 360)

Parenchymal cell
Cell function; Diadenine nucleotide; (Rat liver) (Busshardt, E. (1010) 151)

Pargyline binding
Monoamine oxidase; Granulocyte; Lymphocyte; Inhibitor sensitivity; Kinetic constant; (Human) (Dolors Balsa, M. (992) 140)

Parietal cell
ATPase, H^+/K^+-; Ontogeny; Gastric mucosa; ATPase antibody; (Rat) (Hervatin, F. (985) 320)

Parinaric acid
Fluorescence polarization; Lipid state; Lipid bilayer vesicle; Membrane fragment; Freeze-thawing; (*E. coli*) (Souzu, H. (978) 105)

Fluorescence polarization; Freeze-thawing; Lipid state; Dehydration; (*E. coli*) (Souzu, H. (978) 112)

***cis*-Parinaric acid**
Phosphatidylethanolamine; Phase transition; Crosslinking; Dimethylsuberimidate; Fluorescence anisotropy, steady-state (Roth, M.R. (986) 217)

Parotid cell
Phosphoglucoisomerase; Phosphomannoisomerase; Erythrocyte; Pancreatic islet cell (Malaisse-Lagae, F. (998) 118)

Particle size profile
HDL conversion; Lecithin : cholesterol acyltransferase; Chemical crosslinking; Lipoprotein metabolism; (Human plasma) (Nichols, A.V. (1001) 325)

Particulate guanylate cyclase
Atriopeptin; Receptor binding; Enzyme kinetics (Waldman, S.A. (999) 157)

Partition coefficient
Anesthesia theory; Adsorption isotherm; Phospholipid vesicle membrane (Yoshida, T. (979) 287)

Anesthesia mechanism; Binding mode; Lipid/water interface; Surfactant micelle; Volatile anesthetic (Yoshida, T. (985) 331)

Local anesthetic; Phase transition; Surface charge; Dimyristoylphosphatidic acid; Phospholipid vesicle (Kaminoh, Y. (987) 63)

Partition constant
Mathematical modeling; Membrane enzyme; Phospholipid vesicle; Enzyme kinetics; Kinetic constant (Heirwegh, K.P.M. (995) 151)

Partitioning
Aqueous two-phase system; Poly(ethylene glycol); Free volume (Eiteman, M.A. (992) 125)

Partitioning kinetics
Phase partition; Poly(ethylene glycol); Lipid vesicle; Vesicle size (Tilcock, C. (979) 208)

Parvalbumin
Single muscle fiber; (*X. laevis*) (Simonides, W.S. (998) 137)

Calcium binding protein; Oncomodulin; Gene organization; Gene regulation; Tissue-specific gene expression (Berchtold, M.W. (1009) 201)

Passive cation transport
Erythrocyte; Permeability, sodium/potassium ion; Ferricyanide; Iodoacetate; *p*-Chloromercuribenzenesulfonate; Ionophore A23187; (Human) (Fuhrmann, G.F. (983) 179)

Patch clamp
Calcium activated potassium ion channel; Potassium ion channel; Propanolol; Flux measurement; (Human erythrocyte) (Schwarz, W. (978) 32)

Potassium ion channel; Proximal tubule; Apical membrane; (Rabbit) (Merot, J. (978) 134)

Potassium ion channel; Multiple conductance state; Channel degradation; (Molluscan glial cell) (Geletyuk, V.I. (981) 343)

Skeletal muscle; Potassium ion channel; Low-conductance state; (Mouse) (Weik, R. (983) 127)

Epidermal growth factor; Ionic channel; Calcium signal; (Human carcinoma cell) (Mozhayeva, G.N. (1011) 171)

Heart muscle; Sodium channel; Angiotensin II; Protein kinase C; Phosphorylation; (Guinea pig) (Nilius, B. (1014) 259)

Pathogenic bacteria
Respiratory chain; Electron transport; (*Pseudomonas*) (Zannoni, D. (975) 299)

Pelecypoda
Lipoxygenase; 5-Hydroxyicosatetraenoic acid; Arachidonic acid metabolism; Mollusc; (*L. subrostrata*) (Hagar, A.F. (1005) 162)

Penicillin biosynthesis
α-Aminoadipic acid; Lysine; Amino acid compartmentation; (*P. chrysogenum*) (Hönlinger, C. (993) 204)

Pentose phosphate cycle
Cofactor; (Rat liver) (Garcia, G. (990) 59)

Peptaibol
Trichorzianin analog; Amino alcohol; Lipid bilayer; Voltage-dependent conductance; Single-channel behavior (Duclohier, H. (987) 133)

Peptide
β-Casomorphin; Leucine transport; Epithelium, intestinal; Epithelium, tight; (Rat) (Ermisch, A. (982) 79)

Peptide analysis
Delta variant; Unstable hemoglobin; Hemoglobin; δ-Thalassemia; DNA amplification; Sequencing (Codrington, J.F. (1009) 87)

Peptide antiserum
α-Crystallin; Aging; (Bovine lens) (Takemoto, L. (995) 259)

Peptide bond
Aprotinin derivative; Reactive site; Chemical modification (Mehlich, A. (996) 23)

Peptide degradation
Parathyroid hormone; UMR-106 cell; Chymotrypsin; Endopeptidase; (Rat) (Yamaguchi, T. (1010) 177)

Peptide hydrolysis
Epidermal carboxypeptidase; Carboxypeptidase; Substrate specificity; (Rat); (Epidermal cell) (Kikuchi, M. (991) 19)

Peptide–lipid interaction
X-ray diffraction; Lipid bilayer; Membrane structure; Dipalmitoylphosphatidylcholine; Alpha-helical peptide (Huschilt, J.C. (979) 139)

Amphipathic antimicrobial peptide; Alpha-helical peptide; Fluorescent peptide; Pyrenylalanine; Tryptophan fluorescence; Peptide–peptide interaction (Lee, S. (984) 174)

Bradykinin; Cerebroside sulfate; Phosphatidylinositol; Fluorescence (Rao, A.G.A. (997) 278)

Peptide map
5′-Nucleotidase; Laminin receptor, 68 kDa; Glycosylation (Risse, G. (994) 258)

Peptide mapping
Photosystem II; D1-protein; Electron donor (Z); Tyrosine residue (Takahashi, Y. (973) 138)

Protein phosphatase; cDNA cloning; Amino acid sequence; Nucleic acid sequence; (Rabbit liver) (Cohen, P.T.W. (1008) 125)

Peptide–peptide interaction
Amphipathic antimicrobial peptide; Alpha-helical peptide; Fluorescent peptide; Pyrenylalanine; Tryptophan fluorescence; Peptide–lipid interaction (Lee, S. (984) 174)

Peptide sequence
Pyridoxalphosphate; Serine dehydratase; Threonine dehydratase; (Rat liver); (Yeast); (*E. coli*) (Ogawa, H. (996) 139)

Peptide structure
Antifreeze peptide; Amino acid sequence; Ice growth inhibition; (*A. brachycephalus*) (Cheng, C.-H.C. (997) 55)

Vasoactive intestinal peptide; Pancreas; (Cod); (Teleost) (Thwaites, D.T. (999) 217)

Peptide transport
Thiol group; Modifying agent; Brush-border membrane vesicle; (Rabbit kidney) (Miyamoto, Y. (978) 25)

Peptidyltransferase inhibitor
Synergimycin; Antibiotic; Ribosome; Protein synthesis (Nyssen, E. (1009) 39)

Pericardium
Insulin-like growth factor-I; Hyaluronic acid; Hyaluronic acid synthesis; (Rabbit) (Honda, A. (1014) 305)

Periodate oxidation
Macrophage recognition; Disulfide formation; Sulfhydryl oxidation; Diamide; (Erythrocyte membrane) (Beppu, M. (979) 35)

Peripheral kinase
Contact site; Mitochondrion; Hexokinase; Creatine kinase; Nucleoside-diphosphate kinase (Adams, V. (981) 213)

Peripheral protein
Apocytochrome *c*; Cytochrome *c*; Lysozyme; Polylysine; Spin label; ESR (Sankaram, M.B. (986) 315)

Periplasmic protein
Photosynthetic bacteria; TMAO/DMSO reductase; Electron transport; Cytochrome *c*-556; (*Rb. capsulatus*) (McEwan, A.G. (973) 308)

Periportal zone
Clofibrate; Carnitine acyltransferase; Perivenous zone; Metabolic zonation; (Rat hepatocyte) (Tosh, D. (992) 245)

Peritoneal macrophage
Sphingomyelin; Ceramide; Glucoceramide; Hep G_2 cell; J774 macrophage; (Rat liver) (Stein, O. (1003) 175)

Peritonitis
Lysosomal enzyme; Purification; Sphingomyelinase (Quintern, L.E. (1003) 121)

Perivenous zone
Clofibrate; Carnitine acyltransferase; Periportal zone; Metabolic zonation; (Rat hepatocyte) (Tosh, D. (992) 245)

Permeability
Digalactosyldiacylglycerol; Phosphatidylcholine; Unilamellar vesicle; Thylakoid; Fluidity (Webb, M.S. (984) 41)

Urea; Erythrocyte; Channel; Carrier; Kinetics (Yousef, L.W. (984) 281)

Peroxisomal membrane; Conductance channel; Porin; Single-channel measurement (Lemmens, M. (984) 351)

Phospholipid; *n*-Alcohol; Melittin; NMR; Vesicular membrane (Kaszuba, M. (985) 106)

Phosphatidylcholine; Cholesterol; 5-Hydroxyicosatetraenoic acid; 15(*S*)-Hydroxyicosatetraenoic acid; Liposome (Isaacson, Y. (986) 295)

Fibrin; Fibrin gel structure; Microscopy; Turbidity (Blombäck, B. (997) 96)

Permeability coefficient
Ion leak; Energy transducing membrane; Non-ohmic behavior; Electrical gradient; Flux voltage.equation (Garlid, K.D. (976) 109)

Permeability, sodium/potassium ion
Erythrocyte; Passive cation transport; Ferricyanide; Iodoacetate; *p*-Chloromercuribenzenesulfonate; Ionophore A23187; (Human) (Fuhrmann, G.F. (983) 179)

Permease
Amino acid transport; Proton/amino acid symport; Kinetics; Energy coupling; (*P. cyclopium*) (Roos, W. (978) 119)

Peroxidase
Peroxidation; Iodide; EDTA (Banerjee, R.K. (992) 393)

Enzyme inactivation; Isoenzyme; Indolylacetic acid oxidation; Auxin (Acosta, M. (996) 7)

Peroxidatic aldehyde
Aldehyde dehydrogenase; Benzaldehyde; (Mouse stomach) (Algar, E.M. (995) 168)

Peroxidation
Peroxidase; Iodide; EDTA (Banerjee, R.K. (992) 393)

Butylated hydroxytoluene; Probucol; Linoleic acid; Cholesterol esterification; Cholesterol secretion (Stein, O. (1003) 115)

Peroxide
Potassium ion transport; *N*-Ethylmaleimide; Hemoglobin; Thiol; Erythrocyte; (Human) (Sheerin, H.E. (983) 65)

Peroxisomal β-oxidation
Lignoceryl-CoA ligase; Erucic acid; Adrenic acid; X-linked adrenoleukodystrophy; Neonatal adrenoleukodystrophy; (Human fibroblast) (Christensen, E. (1002) 79)

Fatty acid oxidation; Beta oxidation; Fatty acid analog; (Morris hepatoma cell line) (Spydevold, (1003) 72)

Proliferator; 1-Acylglycerophosphocholine acyltransferase; (Rat liver) (Kawashima, Y. (1005) 123)

Peroxisomal membrane
Conductance channel; Porin; Single-channel measurement; Permeability (Lemmens, M. (984) 351)

Peroxisomal targeting signal
Uricase; Nucleotide sequence; (Rabbit liver) (Motojima, K. (1008) 116)

Peroxisome
Dicarboxylic acid beta oxidation; Beta oxidation; Mitochondrion; (Rat liver) (Suzuki, H. (990) 25)

Polyamine oxidase; Spermine; N^1-Acetylspermine (Hayashi, H. (991) 310)

Nonspecific lipid transfer protein; Sterol carrier protein 2; Subcellular distribution; (Rat liver); (Rat adrenal gland) (Van Amerongen, A. (1001) 243)

Dicarboxylic acid; Fatty acyl-CoA oxidase; Beta oxidation; Substrate inhibition (Poosch, M.S. (1006) 291)

Riboflavin deficiency; Mitochondrion; Acyl-CoA; Flavoprotein; Organic acid; (Rat) (Veitch, K. (1006) 335)

Microbody; Glyoxysome; Glycosome; Protein translocation; Topogenesis; Biogenesis (Borst, P. (1008) 1)

Peroxisome proliferation
Fatty acid; Fatty acid analog (Berge, R.K. (1004) 345)

Peroxisome proliferator
Acylglycerophosphocholine acyltransferase; Enzyme induction; (Rat kidney) (Kawashima, Y. (1006) 214)

Peroxy complex
Cytochrome oxidase; Proteoliposome; Proton pumping; Conformational transition; Spectroscopy (Vygodina, T. (973) 390)

Peroxyl radical
tert-Butylhydroperoxide; Alkoxyl radical; Oxidative stress; (Human erythrocyte) (Van der Zee, J. (980) 175)

PGLa
Magainin; Vertebrate peptide antibiotics; Free energy transduction; Membrane potential; Mitochondrial oxidative phosphorylation; Uncoupler; (*X. laevis*) (Westerhoff, H.V. (975) 361)

P-glycoprotein
Multidrug resistance; (KB cell); (Human) (Yoshimura, A. (992) 307)

pH
ATPase, Na^+/K^+-; Phosphatase, K^+-; Dimethyl sulfoxide; Metal (Robinson, J.D. (997) 41)

Sterol synthesis; 15-Ketosterol; (Rat liver) (Stephens, T.W. (1001) 127)

pH, alkaline
Sodium ion/proton antiport; Bacterial growth; (*E. coli*) (McMorrow, I. (981) 21)

pH, cytoplasmic
pH regulation; Proton pump; Intracellular buffering; Membrane permeability; (*D. discoideum*) (Inouye, K. (1012) 64)

Epidermal growth factor; Thyroid-stimulating hormone; Alkalinization; (Cultured porcine thyroid cell) (Takasu, N. (1012) 117)

pH, cytosolic
Insulin secretion; Nutrient stimulus; Sodium ion–proton exchange; (Human insulinoma cells, HIT) (Lynch, A.M. (1012) 166)

pH dependence
Hydrogen evolution; ATP productivity; NAD; Membrane bound hydrogenase; (*E. aerogenes*) (Tanisho, S. (973) 1)

Cytochrome oxidase; Optical spectrum (Fabian, M. (973) 414)

Bacterial photosynthesis; Reaction center; Charge recombination; Protonation; (*Rps. viridis*) (Sebban, P. (974) 54)

Cytochrome oxidase; Flow flash spectrophotometry; Electron transfer; Oxygen intermediate; Temperature dependence (Oliveberg, M. (977) 322)

Phospholipid vesicle; Phosphatidylcholine; Phosphatidylethanolamine; Vesicle permeability; Cholate–phospholipid micelle; Cholestyramine (Shi, S.P. (982) 187)

Hemolysin; Ion channel; Single-channel current; Current-voltage characteristic; Phospholipid bilayer; Selectivity; (*E. coli*) (Ropele, M. (985) 9)

pH effect
Photosystem II; Water oxidation; Electron transfer (Meyer, B. (974) 36)

Glycophorin; CD4; Erythrocyte; Membrane–protein interaction; Membrane defect (Arvinte, T. (981) 61)

Pyruvate kinase; Allosteric kinetics; (*P. blakesleeanus*) (De Arriaga, D. (998) 221)

Lipoxygenase mechanism; Linoleic acid hydroperoxide; (*Glycine max*) (Gardner, H.W. (1001) 274)

pH, extracellular
PAF-acether; Polymorphonuclear neutrophil; Cell concentration; (Human) (Leyravaud, S. (1005) 192)

pH gradient
Intervesicular exchange; Lipid exchange (Eastman, S.J. (981) 178)

pH indicator
Fluorescence; Emission ratio; Phospholipid vesicle; Kinetics (Knight, C.G. (985) 75)

pH, intracellular
Platelet aggregation; Ionophore; Sodium ion, intracellular; Calcium ion mobilization; (Bovine blood) (Kitagawa, S. (1011) 117)

Phorbol ester; fMet-Leu-Phe; Calcium ion, cytosolic; (HL60 cell) (Ladoux, A. (1013) 55)

NMR, ^{31}P-; Fluorescent probe; (Crab egg) (Goudeau, M. (1014) 14)

Proton extrusion; Fluorescence ratio microscopy; (Mouse pancreatic β-cell) (Grapengiesser, E. (1014) 219)

pH jump
Lipid X; Phosphatidylcholine; Phosphatidylethanolamine; Phase behavior; Thermodynamic stability (Lipka, G. (979) 239)

pH regulation
Water permeability; Amniotic fluid; (Human amnion) (Porta, M. (980) 220)

pH, cytoplasmic; Proton pump; Intracellular buffering; Membrane permeability; (*D. discoideum*) (Inouye, K. (1012) 64)

pH sensitivity
Fructose 2,6-bisphosphate; Thrombin; Alkalinization; Human platelet (Vasta, V. (1011) 165)

Phage fd
Pore protein; Adsorption protein (Glaser-Wuttke, G. (985) 239)

Phage RNA
Electroporation; Voltage shock; RNA transfection; (*E. coli*) (Taketo, A. (1007) 127)

Phagocytosis
Organ specific opsonin; Opsonin; Liposome; Macrophage; (Rat liver); (Rat spleen) (Moein Moghimi, S. (984) 384)

Gadolinium chloride; Macrophage blockade; Liposome; Kupffer cell; (Rat hepatocyte) (Lázár, G. (1011) 97)

Pharmacokinetics
Doxorubicin; Drug delivery; Liposome (Druckmann, S. (980) 381)

Phase behavior
Lipid X; Phosphatidylcholine; Phosphatidylethanolamine; pH jump; Thermodynamic stability (Lipka, G. (979) 239)

Dielaidoylphosphatidylethanolamine; Hexagonal H_{II} phase; *n*-Alkanol; NMR, ^{31}P-; Spectrophotometry (Veiro, J.A. (979) 251)

Phosphatidylglycerol; Polar headgroup stereoconfiguration; Monovalent cation; DSC (Salonen, I.S. (982) 205)

Alkyl pyranoside; *n*-Octyl 1-*O*-β-D-glucopyranoside; Liquid crystal; X-ray diffraction (Chung, Y.J. (985) 300)

Cerebroside sulfate; X-ray diffraction; Lipid bilayer; Interdigitation (Stinson, R.H. (986) 234)

Phase diagram
Sugar–lipid interaction; DSC (Hentschel, M. (980) 169)

Phase difference
Electrorotation; Transmembrane potential; Membrane modification; Membrane behavior, non-linear (Fuhr, G. (980) 1)

Phase partition
Poly(ethylene glycol); Lipid vesicle; Partitioning kinetics; Vesicle size (Tilcock, C. (979) 208)

Poly(ethylene glycol); Dextran; Lipid asymmetry; Surface charge (Tilcock, C. (986) 167)

Phase separation
Lipophile; Bilayer; Fluorescence; NK-529; Cyanine dye (Yu, B.-Z. (980) 15)

Bilayer; Annealing; Phospholipase A_2; Lipid–protein interaction; Interfacial catalysis; Interfacial activation (Jain, M.K. (980) 23)

Phospholipid mixture; Melittin; Lipid–protein interaction; Fluorescence; Raman spectroscopy (Lafleur, M. (980) 85)

Phase state
Apical membrane; *p*-Aminohippurate carrier; Alkaline phosphatase; Lipid bilayer; Campbell mutation; (Rat) (Bresler, V.M. (982) 288)

Phase transition
Liposome; Ultrasound; ESR; Deuterium oxide (Ma, L.D. (978) 283)

Lipid bilayer; Interface active molecule; Cholesterol; Density fluctuation; Heterogeneity; Lateral compressibility (Cruzeiro-Hansson, L. (979) 166)

Glycosphingolipid; Cholesterol; Freeze-etching; Phospholipid bilayer; Electron microscopy (Rock, P. (979) 347)

High pressure; Small angle neutron scattering; Phosphatidylcholine (Winter, R. (982) 85)

Membrane bilayer; Myelin basic protein; Bilayer stabilization (Fraser, P.E. (983) 23)

Liposomal amphotericin B; Amphotericin B; Freeze-etch; Electron microscopy; ESR (Grant, C.W.M. (984) 11)

Phospholipid bilayer; Potassium thiocyanate; Interdigitated bilayer; Acyl chain (Cunningham, B.A. (984) 109)

Anesthesia theory; Surface capacitance; Phospholipid vesicle; Interface (Yoshida, T. (984) 253)

Spin label; Interdigitation; Lipid bilayer; Polymyxin B; Polymyxin B nonapeptide (Wang, H.-Y. (985) 182)

Spin label; Interdigitation; Lipid bilayer; Acidic lipid; Polymyxin B; Polymyxin B nonapeptide (Boggs, J.M. (985) 199)

Mercury chloride; Model membrane; Phospholipid–mercury interaction; Amine group, primary; Thermotropic effect (Delnomdedieu, M. (986) 191)

Phosphatidylethanolamine; Crosslinking; Dimethylsuberimidate; Fluorescence anisotropy, steady-state; *cis*-Parinaric acid (Roth, M.R. (986) 217)

Cerebroside sulfate; Lignoceric acid; NMR, ^{2}H- (Jeffrey, K.R. (986) 241)

Local anesthetic; Partition coefficient; Surface charge; Dimyristoylphosphatidic acid; Phospholipid vesicle (Kaminoh, Y. (987) 63)

Phenol derivative
Platelet aggregation; Calcium ion mobilization; Structure–activity relationship; Fluorescence; (Bovine platelet) (Kitagawa, S. (1011) 52)

Phenolic hydroxylation
Lignin peroxidase; Compound III (Schmall, M.W. (999) 267)

Phenolic mycoside
Glycolipid; NMR, ^{1}H-; (*M. tuberculosis*) (Daffé, M. (1002) 257)

Glycolipid; Mycoside; (*M. leprae*) (Daffé, M. (1002) 333)

Phenylacetaldehyde
Schiff base oxidation; Neutrophil; Myeloperoxidase; Chemiluminescence (Nascimento, A.L.T.O. (991) 50)

Phenylalanyl-tRNA synthetase
Alkylating tRNA derivative; Chlorotetrolic acid ester; Adenine analog; Nucleic acid–protein crosslinking (Roques, P. (1009) 99)

Phenylarsine oxide
Glucose transporter; Glucose 6-phosphate; Dipeptide Cbz-Gly-Phe-NH_2; Metallo-endoproteinase substrate; Membrane reconstitution; (Rat adipocyte); (Human erythrocyte) (Wheeler, T.J. (979) 331)

Monensin; Glucose transport; Insulin processing; Signal transduction; (Rat adipocyte) (Douen, A.G. (1010) 363)

Phenylephrine
Opioid receptor; Sarcolemma; Isoproterenol (Ventura, C. (987) 69)

Phenyl glyoxal
Enoyl reductase; Acyl ACP site; (*B. napus*) (Cottingham, I.R. (995) 273)

Phenylhydrazine
Erythrocyte; Spectrin; Protein degradation; Proteolysis; (Human) (Arduini, A. (979) 1)

Phenylimidazole
β-Glucosidase (Li, Y.-K. (999) 227)

Pheophorbide
Fourier transform infrared spectroscopy; Resonance Raman; Chlorophyll (Andersson, L.A. (974) 163)

Pheophytin
Photosystem II; Cytochrome *b*-559 D_1D_2 complex; Intermediate electron acceptor; ENDOR (Lubitz, W. (977) 227)

Phlorizin binding
Hexose transport; Sodium ion cotransport; (Opossum kidney cell line) (Van den Bosch, L. (979) 91)

PhoE
Porin; Hybrid protein; Ion selectivity; Charged group; Lipid bilayer; (*E. coli* K-12 membrane) (Benz, R. (981) 8)

PhoE, export
Signal sequence; Charge distribution; (*E. coli*) (Bosch, D. (979) 69)

Phorbol ester
Circular dichroism; Protein kinase C (Frézard, F. (979) 316)

Glucose transport; Glucose transporter mRNA; Serum; Growth factor; (Mouse fibroblasts 3T3) (Kitagawa, T. (980) 100)

Membrane splitting; Protein kinase C; Red blood cell; Tumor promoter; Diacylglycerol; 12-*O*-Tetradecanoylphorbol 13-acetate (Fisher, K.A. (982) 237)

Galactosyltransferase; Cortisone; Development; (Rat small intestine) (Ozaki, C.K. (991) 243)

Actin; Cytoskeletal assembly; Macrophage (Hartwig, J.H. (1010) 64)

Protein phosphorylation; Zymosan; Lipopolysaccharide; Lipocortin; (Mouse macrophage) (Wijkander, J. (1010) 78)

Sphingosine; Sphingolipid; Protein kinase C; Signal transduction (Merrill, Jr., A.H. (1010) 131)

Protein kinase C; Enzyme expression; Cell differentiation (Hooper, W.C. (1013) 47)

fMet-Leu-Phe; pH, intracellular; Calcium ion, cytosolic; (HL60 cell) (Ladoux, A. (1013) 55)

cyclic AMP; Inositol 1,4,5-trisphosphate; 1,2-Diacylglycerol; Phosphate transport; (Opossum kidney cell) (Quamme, G. (1013) 159)

cyclic AMP; Inositol polyphosphate; Calcium ion activity, intracellular; Phosphate transport; (Opossum kidney cell) (Quamme, G. (1013) 166)

Inositol lipid metabolism; Calcium ion, intracellular; Cholinergic receptor; Verapamil; (Bovine anterior pituitary cell) (Wood, C.A. (1013) 180)

Phorbol myristate acetate
Lipoxin; RBL-1 cell; Ionophore A23187; fMet-Leu-Phe; 5-Lipoxygenase; 15-Lipoxygenase; (Rat) (Ng, C.F. (1004) 332)

ATP; Calcium ion, cytoplasmic; Fura-2; (Human neutrophil) (Kuroki, M. (1012) 103)

Phosphate transport; Protein kinase C; Brush border membrane; Renal tubule (Boneh, A. (1012) 308)

Phosphatase, K^+-
ATPase, Na^+/K^+-; Phosphate; Dimethyl sulfoxide; Water activity (Robinson, J.D. (994) 95)

ATPase, Na^+/K^+-; Dimethyl sulfoxide; pH; Metal (Robinson, J.D. (997) 41)

Phosphate
ATPase, Na^+/K^+-; Phosphatase, K^+-; Dimethyl sulfoxide; Water activity (Robinson, J.D. (994) 95)

Phosphate assay
HPLC; Microsome; Membrane bound enzyme; Purine; Pyrimidine; ATPase (Missiaen, L. (990) 40)

Phosphate bond hydrolysis
Energy transduction; Water activity; Solvation energy; Enzyme mechanism (De Meis, L. (973) 333)

Phosphate deprivation
Phosphate transport kinetics; Brush-border membrane vesicle; *Hyp* mutation; Phosphonoformic acid; (Mouse kidney) (Tenenhouse, H.S. (984) 207)

Phosphate efflux
Polyphosphate; NMR, ^{31}P-; (*S. Syringae*) (Reidl, H.H. (1010) 325)

Phosphate starvation
Polyphosphate synthesis; (*S. cerevisiae*); (*K. marxianus*) (Schuddemat, J. (1010) 191)

Phosphate transport
Sodium ion cotransport; Proximal tubule; *N*-Acetylimidazole; (OK cell) (Wuarin, F. (981) 185)

Toxin; Brush-border membrane; (Rabbit) (Al-Mahrouq, H.A. (981) 200)

Protein kinase C; Brush border membrane; Renal tubule; Phorbol myristate acetate (Boneh, A. (1012) 308)

cyclic AMP; Inositol 1,4,5-trisphosphate; 1,2-Diacylglycerol; Phorbol ester; (Opossum kidney cell) (Quamme, G. (1013) 159)

cyclic AMP; Phorbol ester; Inositol polyphosphate; Calcium ion activity, intracellular; (Opossum kidney cell) (Quamme, G. (1013) 166)

Phosphate transport kinetics
Brush-border membrane vesicle; Phosphate deprivation; *Hyp* mutation; Phosphonoformic acid; (Mouse kidney) (Tenenhouse, H.S. (984) 207)

Phosphate transport protein
Sulfhydryl reagent; Sidedness; Substrate binding site; (Mitochondria); (Rat heart) (Ligeti, E. (973) 170)

Phosphatidic acid
Glycerophosphate acylation; Acyl species; CDP-diacylglycerol; Phosphatidylglycerol; (Rat liver mitochondria) (Rüstow, B. (1002) 261)

Archaebacterium; Phospholipid; Halophile (Lanzotti, V. (1002) 398)

Phosphatidylserine; Phosphatidylcholine; Phospholipase D; L-Serine; D-Serine; (*Streptomyces*) (Juneja, L.R. (1003) 277)

Phosphatidic acid phosphatase
Nucleotide diphosphate; Triacylglycerol synthesis; (Rat liver) (Berglund, L. (1002) 382)

Phosphatidic acid phosphatase
Thiophosphatidic acid; CDP-diacylglycerol synthase (Bonnel, S.I. (1005) 289)

Phosphatidylcholine
Phospholipid distribution; Photosynthetic electron flow; Thylakoid membrane; Phosphatidylglycerol; (Spinach chloroplast) (Siegenthaler, P.-A. (975) 104)

Lipid X; Phosphatidylethanolamine; Phase behavior; pH jump; Thermodynamic stability (Lipka, G. (979) 239)

Molecular modeling; Gramicidin A; AMBER (Meulendijks, G.H.W.M. (979) 321)

Hydrogen bonding; Cholesterol; Fourier transform infrared spectroscopy (Wong, P.T.T. (980) 37)

ω-Cyclohexyl fatty acid; Fourier transform infrared spectroscopy; Lipid; Thermotropic phase behavior (Mantsch, H.H. (980) 42)

Planar multibilayer; ESR; Spin label; Order parameter; Rotational dynamics (Korstanje, L.J. (980) 225)

Lipid phase diagram; Interdigitated phase; Cerebroside; Sulfatide; Calorimetry (Gardam, M. (980) 319)

Microenvironment; Bile salt; Cholesterol; Pyrene; Thiacarbocyanine (Matsuzaki, K. (980) 371)

Micelle–vesicle transition; Bile salt; Drug entrapment; Quasi-elastic light scattering; Transmission electron microscopy (Son, K. (981) 288)

Phosphatidylinositol; Phospholipid transfer protein; Immunoblot; (Rat testis) (Thomas, P.J. (982) 24)

High pressure; Small angle neutron scattering; Phase transition (Winter, R. (982) 85)

Phospholipid vesicle; Phosphatidylethanolamine; pH dependence; Vesicle permeability; Cholate–phospholipid micelle; Cholestyramine (Shi, S.P. (982) 187)

Digalactosyldiacylglycerol; Permeability; Unilamellar vesicle; Thylakoid; Fluidity (Webb, M.S. (984) 41)

Dehydration; Freezing; Lyotropic phase behavior (Lynch, D.V. (984) 267)

Amino acid sequence, terminal; Synthetic peptide; Pardaxin; Model membrane; Phosphatidylserine (Saberwal, G. (984) 360)

Myelin figure; Growth mechanism; Cryo-stage system; Scanning electron microscopy (Sakurai, I. (985) 101)

Myelin figure; Bioelectric field effect (Mishima, K. (985) 351)

Vesicle; Micelle; Octyl glucoside; Protein reconstitution; Protein purification; Acetylcholine receptor; Nicotinic acetylcholine receptor (Schürholz, T. (986) 225)

Cholesterol; 5-Hydroxyicosatetraenoic acid; 15(*S*)-Hydroxyicosatetraenoic acid; Liposome; Permeability (Isaacson, Y. (986) 295)

Phospholipid transfer protein; Phosphatidylinositol; Fluorescent phospholipid; Membrane fluidity; Membrane charge; (Yeast) (Szolderits, G. (986) 301)

Polyene antibiotic; Filipin; Dimyristoylphosphatidylcholine; Large unilamellar vesicle; Circular dichroism (Milhaud, J. (987) 193)

Dietary fat; Phospholipid biosynthesis; Phosphocholinetransferase; Phosphatidylethanolamine methyltransferase; (Rat) (Hargreaves, K.M. (1001) 262)

Base exchange reaction; Phospholipase D; Phosphatidylserine; Phosphatidylethanolamine; (Bovine retina) (Mori, H. (1003) 98)

Pulmonary surfactant synthesis; Carbon tetrachloride; Alveolar type II cell; (Rat) (Ma, J.Y.C. (1003) 136)

Molecular species profile; Lecithin–cholesterol acyltransferase; Enzyme deficiency (Subbaiah, P.V. (1003) 145)

Phosphatidylserine; Phosphatidic acid; Phospholipase D; L-Serine; D-Serine; (*Streptomyces*) (Juneja, L.R. (1003) 277)

Triacylglycerol biosynthesis; Phosphatidylethanolamine; Phospholipid; (Mammalian liver) (Tijburg, L.B.M. (1004) 1)

Phospholipase A_2 hydrolysis; Phosphatidylethanolamine; (Mixed micelle) (Fanni, T. (1004) 134)

Proliferation; Fatty acid composition; Lysophospholipid acyltransferase; Phospholipid metabolism; Isoproterenol; (Rat submandibular gland) (Yashiro, K. (1005) 56)

Glycerophosphorylcholine; Phospholipid synthesis; Pulmonary surfactant; (Rat liver); (Rat lung) (Veldhuizen, R.A.W. (1005) 157)

Lung surfactant; Fatty acid; Phosphatidylglycerol; Dexamethasone; Fetal lung maturation; (Fetal rat lung) (Xu, Z.-x. (1005) 209)

High density lipoprotein; Lipid emulsion; (Rat) (Martins, I.J. (1005) 217)

Phosphatidylethanolamine molecular species; Lipoprotein secretion; (Rat hepatocyte) (Vance, J.E. (1006) 59)

Polyunsaturated phospholipid; Dimethylethanolamine; Intravenous infusion; (Rat) (Alvaro, D. (1006) 116)

Acyl-CoA; Coenzyme A; Heart muscle microsome; Lysophosphatidylcholine; Transacylase (Sanjanwala, M. (1006) 203)

Phosphatidylcholine biosynthesis
Choline metabolite; Kennedy pathway; Malaria; (*P. knowlesi*); (Monkey erythrocyte) (Ancelin, M.L. (1001) 82)

Electropermeabilization; Choline uptake; Hemicholinium-3; Rat glioma; Cellular compartmentation (George, T.P. (1004) 283)

Phosphatidylcholine metabolism
Lysophosphatidylcholine; Glycerophosphocholine synthesis; 1- and 2-Acyllysophosphatidylcholine (Morash, S.C. (1004) 221)

Lysophosphatidylcholine; Phospholipase A; Ethanol; Vitamin E; (Rat heart) (Choy, P.C. (1005) 225)

Phosphatidylcholine, mixed acid
DSC; Mixed acid; Dienoic lipid; Cholesterol; Model membrane (Keough, K.M.W. (983) 51)

Phosphatidylcholine monolayer
Lateral protonic conduction; Magnetic field effect; Orientational effect (Sakurai, I. (985) 347)

Phosphatidylcholine peroxidation
Spin trapping; Calcium blocker inhibition; Stobadine inhibition; Nifedipine radical (Ondriaš, K. (1003) 238)

Phosphatidylcholine, saturated
Extrusion; Large unilamellar vesicle; Liposome preparation (Nayar, R. (986) 200)

Phosphatidylcholine secretion
Pulmonary surfactant; Vasopressin; Type II pneumocyte (Brown, L.A.S. (1001) 76)

Phosphatidylcholine synthesis
CTP : phosphocholine cytidylyltransferase; Enzyme translocation; Calcium; (Rat hepatocyte) (Sanghera, J.S. (1003) 284)

Choline kinase; Aromatic hydrocarbon receptor (Paulson, B.K. (1004) 274)

CTP : choline-phosphate cytidylyltransferase; Cytidylyltransferase; Isozyme structure; Enzyme aggregate (Weinhold, P.A. (1006) 299)

Phosphatidylcholine turnover
Surfactan; Apolipoprotein; (Rabbit) (Baritussio, A. (1006) 19)

Phosphatidylcholine vesicle
Calcium adsorption; Fluorescence anisotropy; Mixed bilayer; Calcium ion asymmetry (Bakás, L.S. (979) 352)

Cholesterol; Glycophorin; ESR (Tampé, R. (982) 41)

Fluorescence anisotropy; Cytochrome b_5; Cytochrome-b_5 reductase (Pugh, E.L. (985) 255)

Phosphatidylethanolamine
Lipid vesicle; Lipid asymmetry; Ganglioside; Curvature (Thomas, P.D. (978) 85)

Transferrin; Covalent coupling; Protein micelle; Liposome (Afzelius, P. (979) 231)

Lipid X; Phosphatidylcholine; Phase behavior; pH jump; Thermodynamic stability (Lipka, G. (979) 239)

Calcium ion transport; Liposome; Mitochondrial lipid; Cardiolipin; Arsenazo III (Kester, M.B. (980) 127)

Hexagonal H_{II} phase; Transition temperature; Lipid vesicle (Brown, P.M. (980) 181)

Lipid phase transition; Inverted hexagonal phase; Cryoprotectant; Hofmeister effect; Hexagonal H_{II} phase (Koynova, R.D. (980) 377)

Phospholipid vesicle; Phosphatidylcholine; pH dependence; Vesicle permeability; Cholate–phospholipid micelle; Cholestyramine (Shi, S.P. (982) 187)

CHO cell mutant; Phosphatidylserine; Sindbis virus; Membrane fusion; Membrane biogenesis (Kuge, O. (986) 61)

Liposome stability; Glycophorin; Wheat germ agglutinin (Pinnaduwage, P. (986) 106)

Phase transition; Crosslinking; Dimethylsuberimidate; Fluorescence anisotropy, steady-state; *cis*-Parinaric acid (Roth, M.R. (986) 217)

Acylornithine; Polar lipid; Fatty acid; (*P. cepacia*) (Cox, A.D. (1001) 60)

N-Methylation; Molecular species; Microsome; (Rat liver) (Audubert, F. (1002) 62)

Base exchange reaction; Phospholipase D; Phosphatidylserine; Phosphatidylcholine; (Bovine retina) (Mori, H. (1003) 98)

Phospholipid hydroperoxide; Lipid peroxidation; Hydroperoxide decomposition; Iron binding protein; (Human blood plasma) (Terao, J. (1003) 221)

Triacylglycerol biosynthesis; Phosphatidylcholine; Phospholipid; (Mammalian liver) (Tijburg, L.B.M. (1004) 1)

Phospholipase A_2 hydrolysis; Phosphatidylcholine; (Mixed micelle) (Fanni, T. (1004) 134)

Ethanolamine; Linoleic acid metabolism; (Rat liver) (Imaizumi, K. (1005) 253)

Phosphatidylethanolamine molecular species; Lipoprotein secretion; (Rat hepatocyte) (Vance, J.E. (1006) 59)

Polyunsaturated phospholipid; Dimethylethanolamine; Intravenous infusion; (Rat) (Alvaro, D. (1006) 116)

Acyl-CoA; Coenzyme A; Heart muscle microsome; Lysophosphatidylcholine; Transacylase (Sanjanwala, M. (1006) 203)

Phosphatidylcholine biosynthesis
Choline metabolite; Kennedy pathway; Malaria; (*P. knowlesi*); (Monkey erythrocyte) (Ancelin, M.L. (1001) 82)

Electropermeabilization; Choline uptake; Hemicholinium-3; Rat glioma; Cellular compartmentation (George, T.P. (1004) 283)

Phosphatidylcholine metabolism
Lysophosphatidylcholine; Glycerophosphocholine synthesis; 1- and 2-Acyllysophosphatidylcholine (Morash, S.C. (1004) 221)

Lysophosphatidylcholine; Phospholipase A; Ethanol; Vitamin E; (Rat heart) (Choy, P.C. (1005) 225)

Phosphatidylcholine, mixed acid
DSC; Mixed acid; Dienoic lipid; Cholesterol; Model membrane (Keough, K.M.W. (983) 51)

Phosphatidylcholine monolayer
Lateral protonic conduction; Magnetic field effect; Orientational effect (Sakurai, I. (985) 347)

Phosphatidylcholine peroxidation
Spin trapping; Calcium blocker inhibition; Stobadine inhibition; Nifedipine radical (Ondriaš, K. (1003) 238)

Phosphatidylcholine, saturated
Extrusion; Large unilamellar vesicle; Liposome preparation (Nayar, R. (986) 200)

Phosphatidylcholine secretion
Pulmonary surfactant; Vasopressin; Type II pneumocyte (Brown, L.A.S. (1001) 76)

Phosphatidylcholine synthesis
CTP : phosphocholine cytidylyltransferase; Enzyme translocation; Calcium; (Rat hepatocyte) (Sanghera, J.S. (1003) 284)

Choline kinase; Aromatic hydrocarbon receptor (Paulson, B.K. (1004) 274)

CTP : choline-phosphate cytidylyltransferase; Cytidylyltransferase; Isozyme structure; Enzyme aggregate (Weinhold, P.A. (1006) 299)

Phosphatidylcholine turnover
Surfactan; Apolipoprotein; (Rabbit) (Baritussio, A. (1006) 19)

Phosphatidylcholine vesicle
Calcium adsorption; Fluorescence anisotropy; Mixed bilayer; Calcium ion asymmetry (Bakás, L.S. (979) 352)

Cholesterol; Glycophorin; ESR (Tampé, R. (982) 41)

Fluorescence anisotropy; Cytochrome b_5; Cytochrome-b_5 reductase (Pugh, E.L. (985) 255)

Phosphatidylethanolamine
Lipid vesicle; Lipid asymmetry; Ganglioside; Curvature (Thomas, P.D. (978) 85)

Transferrin; Covalent coupling; Protein micelle; Liposome (Afzelius, P. (979) 231)

Lipid X; Phosphatidylcholine; Phase behavior; pH jump; Thermodynamic stability (Lipka, G. (979) 239)

Calcium ion transport; Liposome; Mitochondrial lipid; Cardiolipin; Arsenazo III (Kester, M.B. (980) 127)

Hexagonal H_{II} phase; Transition temperature; Lipid vesicle (Brown, P.M. (980) 181)

Lipid phase transition; Inverted hexagonal phase; Cryoprotectant; Hofmeister effect; Hexagonal H_{II} phase (Koynova, R.D. (980) 377)

Phospholipid vesicle; Phosphatidylcholine; pH dependence; Vesicle permeability; Cholate–phospholipid micelle; Cholestyramine (Shi, S.P. (982) 187)

CHO cell mutant; Phosphatidylserine; Sindbis virus; Membrane fusion; Membrane biogenesis (Kuge, O. (986) 61)

Liposome stability; Glycophorin; Wheat germ agglutinin (Pinnaduwage, P. (986) 106)

Phase transition; Crosslinking; Dimethylsuberimidate; Fluorescence anisotropy, steady-state; *cis*-Parinaric acid (Roth, M.R. (986) 217)

Acylornithine; Polar lipid; Fatty acid; (*P. cepacia*) (Cox, A.D. (1001) 60)

N-Methylation; Molecular species; Microsome; (Rat liver) (Audubert, F. (1002) 62)

Base exchange reaction; Phospholipase D; Phosphatidylserine; Phosphatidylcholine; (Bovine retina) (Mori, H. (1003) 98)

Phospholipid hydroperoxide; Lipid peroxidation; Hydroperoxide decomposition; Iron binding protein; (Human blood plasma) (Terao, J. (1003) 221)

Triacylglycerol biosynthesis; Phosphatidylcholine; Phospholipid; (Mammalian liver) (Tijburg, L.B.M. (1004) 1)

Phospholipase A_2 hydrolysis; Phosphatidylcholine; (Mixed micelle) (Fanni, T. (1004) 134)

Ethanolamine; Linoleic acid metabolism; (Rat liver) (Imaizumi, K. (1005) 253)

Phosphatidylethanolamine methyltransferase
Dietary fat; Phosphatidylcholine; Phospholipid biosynthesis; Phosphocholinetransferase; (Rat) (Hargreaves, K.M. (1001) 262)

Phosphatidylethanolamine molecular species
Phosphatidylcholine; Lipoprotein secretion; (Rat hepatocyte) (Vance, J.E. (1006) 59)

Phosphatidylethanolamine *N*-methyltransferase
Protein phosphorylation; Protein kinase; (Rat liver) (Ridgway, N.D. (1004) 261)

Phosphatidylglycerol
Phospholipid distribution; Photosynthetic electron flow; Thylakoid membrane; Phosphatidylcholine; (Spinach chloroplast) (Siegenthaler, P.-A. (975) 104)

Membrane potential; Drug–lipid interaction; Celiptium (Sautereau, A.M. (978) 276)

Polar headgroup stereoconfiguration; Monovalent cation; Phase behavior; DSC (Salonen, I.S. (982) 205)

Glycerophosphate acylation; Acyl species; Phosphatidic acid; CDP-diacylglycerol; (Rat liver mitochondria) (Rüstow, B. (1002) 261)

Lung surfactant; Fatty acid; Phosphatidylcholine; Dexamethasone; Fetal lung maturation; (Fetal rat lung) (Xu, Z.-x. (1005) 209)

Phosphatidylglycerol phosphate
3,4-Dihydroxybutyl 1-phosphonate; Phosphonate analog; Cardiolipin synthesis; (*B. subtilis*) (Lacombe, C. (1005) 103)

Phosphatidylinositol
Phosphatidylcholine; Phospholipid transfer protein; Immunoblot; (Rat testis) (Thomas, P.J. (982) 24)

Fusion; Polyphosphoinositide; Lysophosphatidylinositol monophosphate; Membrane (Wheeler, J.J. (984) 33)

Phospholipid transfer protein; Phosphatidylcholine; Fluorescent phospholipid; Membrane fluidity; Membrane charge; (Yeast) (Szolderits, G. (986) 301)

Phosphatidylinositol transfer protein; Phosphatidylinositol synthesis; Cerebellum; (Rat brain) (Nyquist, D.A. (987) 165)

Bradykinin; Cerebroside sulfate; Peptide–lipid interaction; Fluorescence (Rao, A.G.A. (997) 278)

Molecular species; Phosphatidylinositol synthase; (Potato tuber); (Pea leaf); (Soya bean microsome) (Justin, A.M. (1005) 51)

Phosphatidylinositol bilayer
Bilayer; Osmotic pressure; Lamellar repeat period; Neutron diffraction; X-ray diffraction (McDaniel, R.V. (983) 241)

Phosphatidylinositol 4,5-bisphosphate
Neomycin; Surface potential; Zeta potential; Second messenger (Gabev, E. (979) 105)

Phospholipase C; Mastoparan; Phospholipid hydrolysis (Wallace, M.A. (1006) 311)

Phosphatidylinositol 4-phosphate; Phosphatidylinositol-4-phosphate kinase; Calcium ion; Trifluoperazine; (Bovine adrenal medulla) (Husebye, E.S. (1010) 250)

Phosphatidylinositol hydrolysis
Cadmium; T cell activation; Interleukin 2; Protein kinase C; (Human) (Cifone, M.G. (1011) 25)

Phosphatidylinositol 4-phosphate
Phosphatidylinositol 4,5-bisphosphate; Phosphatidylinositol-4-phosphate kinase; Calcium ion; Trifluoperazine; (Bovine adrenal medulla) (Husebye, E.S. (1010) 250)

Phosphatidylinositol-4-phosphate kinase
Phosphatidylinositol 4-phosphate; Phosphatidylinositol 4,5-bisphosphate; Calcium ion; Trifluoperazine; (Bovine adrenal medulla) (Husebye, E.S. (1010) 250)

Phosphatidylinositol specific phospholipase C
Heparan sulfate; Proteoglycan; Heparin; Phospholipase C; (Rat heart cell) (Chajek-Shaul, T. (1014) 178)

Phosphatidylinositol synthase
Molecular species; Phosphatidylinositol; (Potato tuber); (Pea leaf); (Soya bean microsome) (Justin, A.M. (1005) 51)

Phosphatidylinositol synthesis
Phosphatidylinositol; Phosphatidylinositol transfer protein; Cerebellum; (Rat brain) (Nyquist, D.A. (987) 165)

Phosphatidylinositol transfer protein
Phosphatidylinositol; Phosphatidylinositol synthesis; Cerebellum; (Rat brain) (Nyquist, D.A. (987) 165)

Phosphatidylserine
Unsaturated fatty acid chain; Magnesium ion complex; Hydration; Fourier transform infrared spectroscopy; NMR, ^{31}P- (Casal, H.L. (982) 228)

Lipid–protein interaction; Lipid asymmetry; Calpain; Diamide; Cytoskeleton; (Human platelet) (Comfurius, P. (983) 212)

Amino acid sequence, terminal; Synthetic peptide; Pardaxin; Model membrane; Phosphatidylcholine (Saberwal, G. (984) 360)

CHO cell mutant; Phosphatidylethanolamine; Sindbis virus; Membrane fusion; Membrane biogenesis (Kuge, O. (986) 61)

Base exchange reaction; Phospholipase D; Phosphatidylethanolamine; Phosphatidylcholine; (Bovine retina) (Mori, H. (1003) 98)

Phosphatidylcholine; Phosphatidic acid; Phospholipase D; L-Serine; D-Serine; (*Streptomyces*) (Juneja, L.R. (1003) 277)

Phospholipid; Liposome; Endocytosis; Macrophage; Lymphocyte; (Rat) (Mietto, L. (1013) 1)

Phosphine trimethyl
NMR, two dimensional; Myoglobin; Amino acid assignments (Simonneaux, G. (999) 42)

Phosphoacceptor site
Tyrosine protein kinase; EGF receptor; Synthetic peptide; Phosphotyrosine (Cola, C. (1012) 191)

Phosphocholinetransferase
Dietary fat; Phosphatidylcholine; Phospholipid biosynthesis; Phosphatidylethanolamine methyltransferase; (Rat) (Hargreaves, K.M. (1001) 262)

Phosphodiesterase
cyclic AMP; Platelet membrane; (Human blood) (Kahn, N.N. (984) 113)

Nucleotide phosphodiesterase; Ehrlich ascites carcinoma (Fukazawa, H. (991) 272)

Calmodulin; Amphiphile; Surfactant (Isomaa, B. (998) 131)

Phospho*enol*pyruvate carboxykinase
Protein phosphorylation; Protein catabolism; (Yeast) (Burlini, N. (1014) 153)

Phosphofructokinase
Enzyme binding; Muscle fatigue; Glycolysis; (Gastrocnemius muscle); (*R. pipiens*) (Guderley, H. (977) 87)

Isozyme; Phosphorylation; cyclic AMP dependent kinase (Valaitis, A.P. (995) 187)

6-Phosphofructokinase
Fructose 2,6-bisphosphate; Alveolar type II cell; Development; (Rat lung) (Heesbeen, E.C. (1002) 388)

Phosphoglucoisomerase
Diastereotopic specificity; Isotopic discrimination (Liemans, V. (998) 111)

Phosphomannoisomerase; Erythrocyte; Parotid cell; Pancreatic islet cell (Malaisse-Lagae, F. (998) 118)

6-Phosphogluconate dehydrogenase
(*H. influenzae*) (Yoon, H. (994) 75)

3-Phosphoglycerate kinase
Fluorescence; Tryptophan (Dryden, D.T.F. (997) 313)

Phosphoglycolipid
Lipid characterization; Complex lipid; (*Thermococcales*); (Archaebacteria) (Lanzotti, V. (1004) 44)

Phosphoinositide
Adipocyte; Adenosine; Oxytocin; Catecholamine; Insulin (Lee, H.-M. (1013) 73)

Thyrotropin; Calcium; Potassium depolarization; Cytoplasmic calcium; Pituitary cell; (Bovine) (Wood, C.A. (1013) 97)

Phosphoinositide hydrolysis
GTPase; Atrial natriuretic factor; (Cultured bovine smooth muscle cell) (Hirata, M. (1010) 346)

Phosphoinositide metabolism
Platelet membrane; Ganodermic acid S; Aggregation; Electron microscopy; (Human blood) (Wang, C.-N. (986) 151)

Phosphoinositide turnover
T lymphocyte; Interleukin 2; Phytohemagglutinin; Cell proliferation; (Human) (Korichneva, I.L. (1014) 173)

Phospholamban
ATPase; Sarcoplasmic reticulum; Rotational diffusion; Phosphorescence polarization; Protein phosphorylation (Fowler, C. (980) 348)

Protein phosphorylation; Circular dichroism (Simmerman, H.K.B. (997) 322)

Phospholipase
Textilotoxin; Presynaptic neurotoxin; Protein; Secondary structure; Spectroscopy (Aird, S.D. (997) 219)

Bile; Cholesterol nucleation; Gallstone disease; (Human) (Groen, A.K. (1006) 179)

Phospholipase A_1
Lysosome protein; Triacinyl dye; Hydrophobic interaction chromatography; (Rat liver) (Löffler, B.-M. (1003) 225)

Phospholipase A_2
Phase separation; Bilayer; Annealing; Lipid–protein interaction; Interfacial catalysis; Interfacial activation (Jain, M.K. (980) 23)

Lysophospholipid; Calcium ion transport; (Rat liver mitochondria) (Lenzen, S. (982) 140)

Arachidonic acid; Fatty acid; Calcium ion transport; (Rat liver mitochondria) (Rustenbeck, I. (982) 147)

Phospholipid asymmetry; Semliki Forest virus (Allan, D. (987) 199)

Raman spectroscopy; Infrared; Protein conformation (Arêas, E.P.G. (997) 15)

Primary structure; Neurotoxin; Toxic site; Computer modeling; (*V. ammodytes ammodytes*); (Snake venom) (Križaj, I. (999) 198)

Aristolochic acid; Arachidonic acid; PAF; (Human neutrophil) (Rosenthal, M.D. (1001) 1)

Lysophosphatidic acid; Platelet; Thrombin; (Human) (Gerrard, J.M. (1001) 282)

Interfacial catalysis; Enzyme kinetics (Jain, M.K. (1002) 127)

Nuclear matrix; Polyphosphoinositide; (Rat ascites hepatoma) (Tamiya-Koizumi, K. (1002) 182)

Duodenum; Biliary lipoprotein; Pancreas; (Human) (Kozumplik, V. (1002) 395)

Plasma membrane; Phospholipid retailoring; (*Tetrahymena*) (Horváth, I. (1002) 409)

Protein inhibition; Lipid/water interface; Liposome; Micelle; Protein stimulation; (Pancreas); (Bee venom) (Conricode, K.M. (1003) 36)

Interfacial catalysis; Substrate specificity; Nonspecific inhibitor; Bilayer; Membrane fluidity (Jain, M.K. (1003) 91)

Phospholipase C; Arachidonic acid; Subcellular distribution; (Human lung); (Rat lung) (Yeats, D.A. (1003) 189)

Fatty acid elongation; Condensation; Lipid–protein interaction; Free fatty acid (Yoshida, S. (1004) 239)

Phosphatidylcholine metabolism; Lysophosphatidylcholine; Ethanol; Vitamin E; (Rat heart) (Choy, P.C. (1005) 225)

Vitamin E; α-Tocopherol; 5-Lipoxygenase; Polymorphonuclear leukocyte; Arachidonic acid release; (Rat) (Chan, A.C. (1005) 265)

Platelet; Inflammation; Circulation; (Rat) (Murakami, M. (1005) 270)

Two dimensional gel electrophoresis; Protein characterization; (Rat lung) (Lindahl, M. (1005) 282)

Catalytic subunit; Cation interaction; Crotoxin (Radvanyi, F. (1006) 183)

Prostaglandin B_1 oligomer; Arachidonic acid; (Human neutrophil); (Human endothelial cell) (Rosenthal, M.D. (1006) 278)

Tissue distribution; Molecular cloning (Sakata, T. (1007) 124)

Phospholipase C; Arachidonic acid; 1-Oleoyl-2-acetyl-*sn*-glycerol; Ketogenesis; Oleate metabolism; (Rat hepatocyte) (Chihara, M. (1012) 5)

Phospholipase A_2 hydrolysis
Phosphatidylcholine; Phosphatidylethanolamine; (Mixed micelle) (Fanni, T. (1004) 134)

Phospholipase A_2 inhibition
Prostaglandin B_1 polymer (PGBx) (Franson, R.C. (1006) 272)

Phospholipase A_2 protection
NMR; Transferred NOE; Active site (Williamson, M.P. (997) 9)

Phospholipase C
Phospholipase A_2; Arachidonic acid; Subcellular distribution; (Human lung); (Rat lung) (Yeats, D.A. (1003) 189)

Mastoparan; Phospholipid hydrolysis; Phosphatidylinositol 4,5-bisphosphate (Wallace, M.A. (1006) 311)

Vasopressin; (Rat hepatocyte) (Pittner, R.A. (1010) 227)

Phospholipase A_2; Arachidonic acid; 1-Oleoyl-2-acetyl-*sn*-glycerol; Ketogenesis; Oleate metabolism; (Rat hepatocyte) (Chihara, M. (1012) 5)

Phospholipase C
Lymphocyte, B; G protein; Transmembrane signalling; Surface immunoglobulin; Inositol phospholipid (Monroe, J.G. (1013) 273)

Heparan sulfate; Proteoglycan; Heparin; Phosphatidylinositol specific phospholipase C; (Rat heart cell) (Chajek-Shaul, T. (1014) 178)

Phospholipase D
Base exchange reaction; Phosphatidylserine; Phosphatidylethanolamine; Phosphatidylcholine; (Bovine retina) (Mori, H. (1003) 98)

Phosphatidylserine; Phosphatidylcholine; Phosphatidic acid; L-Serine; D-Serine; (*Streptomyces*) (Juneja, L.R. (1003) 277)

Phospholipid
Crystal protein; δ-Endotoxin; Liposome; (*B. thuringiensis aizawai*) (Haider, M.Z. (978) 216)

Cholesterol; Thermodynamics; Differential scanning calorimetry (Bach, D. (979) 11)

Fluorescent lipid; Fluorescent probe; Sterol; Membrane probe; Lateral diffusion; Lucifer yellow-lipid conjugates (Nothnagel, E.A. (980) 209)

Envelope glycoprotein; Glycoprotein; Reconstituted hybrid vesicle; (Sendai virus); (Influenza virus) (Lapidot, M. (980) 281)

Erythrocyte membrane; Photodynamic treatment; Leak permeability; Transbilayer mobility; Flip-flop; (Human) (Deuticke, B. (982) 53)

Adriamycin; Anthracycline; Liposome; Equilibrium binding; Fluorescence spectroscopy (Burke, T.G. (982) 123)

Curvature; Reorientational dynamics; ESR; Cholestane spin label; Lipid vesicle; Hydration (Korstanje, L.J. (982) 196)

Ubiquinone; Ultrasonic irradiation; Sonolysis; Vesicle; Free radical (Landi, L. (984) 21)

LDL; Fluorescence spectroscopy; Lipid fluidity; (Human) (Vauhkonen, M. (984) 81)

Prostasome; Cholesterol; Fatty acid; ESR; Spin label; (Human semen) (Arvidson, G. (984) 167)

Ganglioside; Monolayer; Water/lipid interface; Lipid/air interface; Surface potential; Electric dipole moment (Beitinger, H. (984) 293)

n-Alcohol; Melittin; Permeability; NMR; Vesicular membrane (Kaszuba, M. (985) 106)

Cholesterol; Cholestenone; Liposome; Membrane; Fluorescent probe; Fluorescence anisotropy (Ben-Yashar, V. (985) 271)

Calpastatin; Biologic membrane; Membrane binding; Calpain; Calcium dependent proteolysis (Mellgren, R.L. (999) 71)

Archaebacterium; Cyclized phosphate; Complex lipid; Haloalkaliphile; (*N. occultus*) (Lanzotti, V. (1001) 31)

Dipalmitoylphosphatidylcholine; Squeeze-out; Gel-to-liquid crystal transformation; Surface activity; Fluorescence polarization (Egberts, J. (1002) 109)

Pulmonary surfactant; Surfactant associated protein; Lipid–protein interaction; Surface tension (Chung, J. (1002) 348)

Archaebacterium; Phosphatidic acid; Halophile (Lanzotti, V. (1002) 398)

Pulmonary surfactant; Lamellar body; Respiratory distress; (Rabbit) (Casals, C. (1003) 201)

Triacylglycerol biosynthesis; Phosphatidylcholine; Phosphatidylethanolamine; (Mammalian liver) (Tijburg, L.B.M. (1004) 1)

Neutrophil; Arachidonic acid; Glycerophospholipid; $(n-3)$Fatty acid; Transacylation; (Human neutrophil) (MacDonald, J.I.S. (1004) 151)

Hypercholesterolemia; Cholesteryl linoleyl ether; (Syrian hamster) (Stein, O. (1006) 144)

DNA polymerase; Cardiolipin (Yoshida, S. (1007) 61)

Phosphatidylserine; Liposome; Endocytosis; Macrophage; Lymphocyte; (Rat) (Mietto, L. (1013) 1)

Phospholipid acyl chain
Ethanolamine glycerophospholipid; Choline glycerophospholipid; Acyl chain composition; Dietary modification (Yeo, Y.K. (1001) 25)

Phospholipid asymmetry
Aminophospholipid; ATP-dependent translocase; Friend erythroleukemic cell; Transbilayer mobility; (Murine erythrocyte) (Middelkoop, E. (978) 241)

ATP-dependent translocase; Aminophospholipid; Diamide; (Human erythrocytes) (Middelkoop, E. (981) 151)

Semliki Forest virus; Phospholipase A_2 (Allan, D. (987) 199)

Phospholipid bilayer
Melittin; Protein–membrane interaction; Kinetics; Thermodynamics (Schwarz, G. (979) 82)

Phase transition; Glycosphingolipid; Cholesterol; Freeze-etching; Electron microscopy (Rock, P. (979) 347)

Membrane vesicle; Unilamellar vesicle; Cholesterol; Fluorescence polarization; NMR, ^{1}H-; NMR, ^{13}C- (Bhakuni, V. (982) 216)

Photoactive hydrophobic labeling; α-Lactalbumin; Fusion (Kim, J. (983) 1)

Ion transport; Antibiotic M139603; Ionophore; NMR, ^{23}Na-; NMR, ^{39}K-; NMR, ^{7}Li- (Riddell, F.G. (984) 6)

Phase transition; Potassium thiocyanate; Interdigitated bilayer; Acyl chain (Cunningham, B.A. (984) 109)

Hemolysin; Ion channel; Single-channel current; Current-voltage characteristic; Selectivity; pH dependence; (*E. coli*) (Ropele, M. (985) 9)

Phospholipid biosynthesis
Dietary fat; Phosphatidylcholine; Phosphocholinetransferase; Phosphatidylethanolamine methyltransferase; (Rat) (Hargreaves, K.M. (1001) 262)

Phospholipid composition
Cholesterol; Lindane; (Rat prostate) (Gutierrez-Ocaña, M.T. (1003) 67)

Phospholipid derivative
p-Aminophenyl α-D-mannopyranoside; *N*-Glutarylphosphatidylethanolamine; Covalent coupling; (Multilamellar liposome) (Weissig, V. (1003) 54)

Phospholipid distribution
Photosynthetic electron flow; Thylakoid membrane; Phosphatidylcholine; Phosphatidylglycerol; (Spinach chloroplast) (Siegenthaler, P.-A. (975) 104)

Phospholipid exchange
(*E. coli*) (Proulx, P. (1003) 217)

Phospholipid fatty acid
Undernutrition; Myelin; ATPase, Na^+/K^+-; 5′-Nucleotidase; Ganglioside; (Rat) (Shantharam, P. (982) 115)

Phospholipid hydrolysis
Phospholipase C; Mastoparan; Phosphatidylinositol 4,5-bisphosphate (Wallace, M.A. (1006) 311)

Phospholipid hydroperoxide
Lipid peroxidation; Phosphatidylethanolamine; Hydroperoxide decomposition; Iron binding protein; (Human blood plasma) (Terao, J. (1003) 221)

Phospholipid hydroperoxide glutathione peroxidase
Glutathione peroxidase; Glutathione; Selenium; (Rat) (Zhang, L. (1006) 140)

Phospholipid mediator
Leukotriene production; PAF; PAF antagonist; (Human monocyte) (Fauler, J. (1013) 80)

Phospholipid–mercury interaction
Mercury chloride; Model membrane; Amine group, primary; Thermotropic effect; Phase transition (Delnomdedieu, M. (986) 191)

Phospholipid metabolism
Arachidonic acid metabolism; (Mucous cell); (Parietal cell); (Guinea pig) (Locher, M. (1003) 196)

Proliferation; Phosphatidylcholine; Fatty acid composition; Lysophospholipid acyltransferase; Isoproterenol; (Rat submandibular gland) (Yashiro, K. (1005) 56)

Lung surfactant; Lamellar body; (Rabbit lung) (Lewis, J. (1005) 277)

Phospholipid mixture
Melittin; Phase separation; Lipid–protein interaction; Fluorescence; Raman spectroscopy (Lafleur, M. (980) 85)

Phospholipid *N*-methyltransferase
Magnesium deficiency; Cellular membrane phospholipid; Calcium uptake; Intracellular calcium; (LLC-PK cell) (Mahfouz, M.M. (1006) 75)

Phospholipid packing
Lipopolysaccharide-low density lipoprotein complex; Toxin inactivation; Hyperlipidemia; ESR; NMR, ^{31}P-; Ultracentrifugation; Fluorescence; (Human) (Victorov, A.V. (984) 119)

Phospholipid pool
Endotoxin; Ionophore A23817; Arachidonic acid turnover (Rogers, T.S. (1001) 169)

Phospholipid release
Gramicidin S; Melittin; Surfactant; Membrane permeability; Cell shape (Katsu, T. (983) 135)

Phospholipid retailoring
Plasma membrane; Phospholipase A; (*Tetrahymena*) (Horváth, I. (1002) 409)

Phospholipid synthesis
Glycerophosphorylcholine; Phosphatidylcholine; Pulmonary surfactant; (Rat liver); (Rat lung) (Veldhuizen, R.A.W. (1005) 157)

Insulin-like growth factor I; Cycloheximide; (Rat kidney) (Crljen, V. (1012) 24)

Phospholipid transfer protein
Phosphatidylinositol; Phosphatidylcholine; Immunoblot; (Rat testis) (Thomas, P.J. (982) 24)

Phosphatidylcholine; Phosphatidylinositol; Fluorescent phospholipid; Membrane fluidity; Membrane charge; (Yeast) (Szolderits, G. (986) 301)

Phospholipid uptake
Surfactant peptide; Type II cell; (Rat) (Rice, W.R. (1006) 237)

Phospholipid vesicle
Glucose-6-phosphate phosphohydrolase; Microsome; (Guinea pig liver) (Gumbhir, K. (981) 77)

N-Formyl peptide receptor; GTP binding protein; Reconstitution; Detergent extraction (Cupo, J.F. (982) 31)

Membrane protein-lipid vesicle; Entrapment; Immobilization; (Human erythrocyte) (Wallstén, M. (982) 47)

Phosphatidylcholine; Phosphatidylethanolamine; pH dependence; Vesicle permeability; Cholate–phospholipid micelle; Cholestyramine (Shi, S.P. (982) 187)

Dehydroergosterol; Cholesterol analog; Fluorescence (Bar, L.K. (983) 109)

Detergent; Critical micellar concentration; DSC; Fourier transform infrared spectroscopy; Freeze-fracture (Bayerl, T.M. (984) 214)

Anesthesia theory; Surface capacitance; Phase transition; Interface (Yoshida, T. (984) 253)

α-Tocopherol; Fluorescence; Lateral diffusion (Aranda, F.J. (985) 26)

pH indicator; Fluorescence; Emission ratio; Kinetics (Knight, C.G. (985) 75)

Local anesthetic; Phase transition; Partition coefficient; Surface charge; Dimyristoylphosphatidic acid (Kaminoh, Y. (987) 63)

Mathematical modeling; Membrane enzyme; Enzyme kinetics; Kinetic constant; Partition constant (Heirwegh, K.P.M. (995) 151)

Phospholipid vesicle membrane
Anesthesia theory; Adsorption isotherm; Partition coefficient (Yoshida, T. (979) 287)

Phosphomannoisomerase
Phosphoglucoisomerase; Erythrocyte; Parotid cell; Pancreatic islet cell (Malaisse-Lagae, F. (998) 118)

Phosphonate analog
3,4-Dihydroxybutyl 1-phosphonate; Phosphatidylglycerol phosphate; Cardiolipin synthesis; (*B. subtilis*) (Lacombe, C. (1005) 103)

Phosphonoacetaldehyde hydrolase purification
Enzyme kinetics; Orthophosphite inactivation; (*P. aeruginosa* A 237) (Dumora, C. (997) 193)

Phosphonoformic acid
Phosphate transport kinetics; Brush-border membrane vesicle; Phosphate deprivation; *Hyp* mutation; (Mouse kidney) (Tenenhouse, H.S. (984) 207)

Phosphonoglycosphingolipid
Phosphonolipid; *N*-Methylaminoethylphosphonic acid; Trigalactosylceramide; FAB-MS; Structure determination; (*T. cornutus*) (Hayashi, A. (1006) 89)

Phosphonolipid
Phosphonoglycosphingolipid; *N*-Methylaminoethylphosphonic acid; Trigalactosylceramide; FAB-MS; Structure determination; (*T. cornutus*) (Hayashi, A. (1006) 89)

Phosphoprotein
Osteopontin; Milk protein; Tumor cell; (Human) (Senger, D.R. (996) 43)

Phosphorescence
Excited triplet state; Delayed fluorescence; Anisotropy; Fluorescence (Vanderkooi, J.M. (976) 1)

Rotational dynamics; Erythrocyte membrane; Spectrin; Cytoskeletal matrix; Time-resolved phosphorescence anisotropy (Learmonth, R.P. (987) 124)

Phosphorescence polarization
ATPase; Sarcoplasmic reticulum; Phospholamban; Rotational diffusion; Protein phosphorylation (Fowler, C. (980) 348)

Phosphoribosylpyrophosphate synthetase
Erythrocyte; Magnesium; Pyrimidine nucleotide; Pyrimidine 5′-nucleotidase deficiency (Lachant, N.A. (994) 81)

Nucleotide synthesis; Ribose-phosphate pyrophosphokinase; Tissue-specific expression; Testis-specific transcript; recombinant DNA; (rat tissue) (Taira, M. (1007) 203)

Phosphorylase kinase
AMP activated protein kinase; Protein kinase; Substrate specificity; Glycogen synthase; Phosphorylation site; Consensus sequence (Carling, D. (1012) 81)

Phosphorylation
LHC II; Fluorescence; Chloroplast; Protein kinase; Photosystem II; (Spinach leaf) (Islam, K. (974) 261)

ATP-γ-S; Fluorescence; Thylakoid; Chloroplast; Photosystem II; (Spinach leaf) (Islam, K. (974) 267)

Nucleoside transport; Nucleoside salvage; Uridine; (Mouse spleen cell) (Plagemann, P.G.W. (981) 315)

ATPase, Na^+/K^+-; Cation sidedness; Liposome (Van der Hijden, H.T.W.M. (983) 142)

Protein, 165 kDa; Insulin; Phosphotyrosine; Kinase; Insulin receptor; (Rat) (Del Vecchio, R.L. (986) 41)

ATPase, Na^+/K^+-; Amine effect; Cytoplasmic side; Extracellular side (Van der Hijden, H.T.W.M. (987) 75)

Protein kinase; Nucleus; Casein kinase; NIII (Friedrich, T.D. (992) 41)

Phosphofructokinase; Isozyme; cyclic AMP dependent kinase (Valaitis, A.P. (995) 187)

Ornithine decarboxylase; Dephosphorylation; (*T. pyriformis*) (Lougovoi, C.P. (996) 70)

Phosphotyrosyl-protein phosphatase; Dephosphorylation; Acid phosphatase; (Wheat seedlings) (Cheng, H.-F. (998) 271)

α-Crystallin; Tertiary structure; Tryptophan environment; Sulfhydryl location; Electron microscopy; Light scattering (Augusteyn, R.C. (999) 293)

Neurofilament; Protein kinase; Cam kinase II; Protein kinase, cyclic AMP dependent; (Spinal cord) (Caputo, C.B. (1012) 299)

Heart muscle; Patch clamp; Sodium channel; Angiotensin II; Protein kinase C; (Guinea pig) (Nilius, B. (1014) 259)

Phosphorylation potential
ATPase, Na^+/K^+-; Non-equilibrium; NMR, ^{31}P-; (Human erythrocyte) (Petersen, A. (1012) 267)

Phosphorylation site
AMP activated protein kinase; Protein kinase; Substrate specificity; Glycogen synthase; Phosphorylase kinase; Consensus sequence (Carling, D. (1012) 81)

Phosphorylcholine
Antibody–hapten interaction; Intrinsic fluorescence; Fluorescence quenching; Derivative spectroscopy; Monoclonal antibody (Urbaneja, M.-A. (998) 85)

Phosphotyrosine
Protein, 165 kDa; Insulin; Kinase; Insulin receptor; Phosphorylation; (Rat) (Del Vecchio, R.L. (986) 41)

Tyrosine protein kinase; EGF receptor; Synthetic peptide; Phosphoacceptor site (Cola, C. (1012) 191)

Phosphotyrosyl-protein phosphatase
Phosphorylation; Dephosphorylation; Acid phosphatase; (Wheat seedlings) (Cheng, H.-F. (998) 271)

Photoacoustic spectroscopy
Photosystem II; Electron transfer; Energy storage; Plastoquinone (Carpentier, R. (975) 370)

Photoactivation
Calcium ion; Photosystem II; Water oxidation; Manganese complex; (Wheat) (Tamura, N. (976) 173)

Anthracycline; Iminodaunomycin; Cell photosensitization; Laser (Andreoni, A. (1014) 8)

Photoactive hydrophobic labeling
α-Lactalbumin; Fusion; Phospholipid bilayer (Kim, J. (983) 1)

Photoaffinity labeling
Nucleoside transport protein; Adenosine; Nitrobenzylthioinosine; (Calf lung) (IJzerman, A.P. (979) 153)

Bile acid transport; Hepatocellular plasma membrane protein; (Rat liver) (Ziegler, K. (980) 161)

S-(4-Azidophenacyl)glutathione; Glutathione *S*-transferase; Membrane vesicle; Transport; (Rat liver) (Kunst, M. (982) 15)

Dopamine D2 receptor; Affinity chromatography; Receptor purification; Membrane receptor (Clagett-Dame, M. (986) 271)

tRNA binding site; Ribosomal protein; (*E. coli*) (Graifer, D.M. (1008) 146)

Receptor; Thromboxane A_2/prostaglandin H_2 receptor; 13-Azapinane; Thromboxane A_2; (Human platelet) (Mais, D.E. (1012) 184)

Photoautotrophic suspension cell
Exchange diffusion; Proton/hexose cotransport; (*C. rubrum* L.) (Gogarten, J.P. (978) 43)

Photobleaching
Cell permeabilization; Merocyanine; Ultraviolet irradiation; Flow cytometry; FRAP; (Mouse spleen) (Szabo Jr., G. (979) 365)

Photo-CIDNP experiment
Plasminogen; Kringle 4 structure; Antifibrinolytic; Protein NMR; NMR, protein (De Marco, A. (994) 121)

Photocycle
Bacteriorhodopsin; Reconstitution; High pressure; Spectroscopy (Park, D.-G. (973) 19)

Photodecomposition
Cyanocytochrome *c*; Ferricyanide; Raman resonance (Chottard, G. (997) 155)

Photodynamic effect
Hematoporphyrin derivative; Hyperthermia; Repair; L929 cells; 2-Aminoisobutyric acid transport; Protein synthesis (Boegheim, J.P.J. (979) 215)

Hematoporphyrin derivative; Cytotoxicity; Clonogenicity; (Mouse L929 fibroblast); (Chinese hamster cell) (Boegheim, J.P.J. (1012) 237)

Photodynamic treatment
Erythrocyte membrane; Leak permeability; Transbilayer mobility; Flip-flop; Phospholipid; (Human) (Deuticke, B. (982) 53)

Photoelectrochemical cell
Reaction center; Chemically modified electrode; Electron transfer (Katz, E.Y. (976) 121)

Photoexcitation
Electron transfer; Kinetics; Cytochrome *c*; Metal hexacyamide complex (Cho, K.C. (973) 53)

Photoinhibition
Chlorophyll fluorescence; High energy state; Non-photochemical quenching; Relaxation kinetics; State transition (Hodges, M. (974) 289)

Protein phosphorylation; Bicarbonate effect; Light harvesting complex; Thylakoid membrane; (Spinach) (Sundby, C. (975) 277)

Semiquinone iron; Triplet state; Radical pair state; Plastoquinone; Photosynthesis (Van Mieghem, F.J.E. (977) 207)

Photolabeling
Single bilayer vesicle; Hydrophobic core; Depth dependent probe; 9-Diazofluorene-2-butyric acid (Lala, A.K. (978) 333)

Photolysis
Ion channel; Gramicidin A; Radiolysis; Lipid membrane (Strässle, M. (980) 305)

Photon correlation spectroscopy
Proteoliposome; Wheat germ agglutinin; Liposome size distribution (Hutchinson, F.J. (978) 17)

Photon counting
Photosynthesis; Etiolated cell; Chloroplast development; Photosystem I; Fluorescence decay; (*C. reinhardtii*) (Chan, C.K. (975) 59)

Photooxidation
Adriamycin; NAD dimer; Semiquinone radical (Carelli, V. (991) 25)

Furocoumarin; Psoralen; Angelicin; Glutathione; Melanin pigmentation; Ultraviolet irradiation; Oxygen radical (D'Ischia, M. (993) 143)

Photophosphorylation
Chloroplast ATPase, H^+-; Pyridoxalphosphate inhibition; CF_1; ATPase, H^+-; Subunit labeling; ([^{3}H]PLP) (Bickel-Sandkötter, S. (974) 30)

ATPase; Thylakoid membrane; Proton gradient; Enzyme regulation; (Lettuce chloroplasts) (Bizouarn, T. (974) 104)

Enzyme reconstitution; Electron transport; Reaction center; Cytochrome bc_1 complex; ATP synthase; (*R. capsulatus*) (Gabellini, N. (974) 202)

Chloroplast; ATPase, H^+-; Enzyme activation; Nucleotide binding (Lohse, D. (976) 94)

NMR, ^{31}P-; Chromatophore; (*C. vinosum*) (Ohta, M. (1011) 33)

Photoselection
Bacteriorhodopsin; M_{412} intermediate; Fourier transform infrared difference spectroscopy; Retinal (Breton, J. (973) 13)

Photosensitization
Rose Bengal; Intensity; Wavelength; Red blood cell; Acetylcholinesterase (Fluhler, E.N. (990) 269)

Photosensitizer
Porphyrin; Liposome; Membrane–dye interaction; Fluorescence quenching; Spin label (Gross, E. (983) 118)

Human lens; γ-Crystallin; Oxidation; Hydrogen peroxide; Cataract; *N*-Formylkynurenine; Superoxide (Andley, U.P. (997) 284)

Photosynthesis
Thylakoid membrane; Photosystem II; Oxygen evolution; Diuron binding (Chow, W.S. (973) 105)

Plastocyanin; Cytochrome *c*-553; Adsorption chromatography; Cyanobacteria (Tan, S. (973) 111)

Energy transfer; Fluorescence; Phycobilisome; Picosecond spectroscopy; (Cyanobacterium); (*A. variabilis* (M-3)) (Mimuro, M. (973) 153)

Electron transport; Electric field effect; Luminescence; (*H. chlorum*) (Vos, M.H. (973) 163)

Bacteriochlorophyll; Gel electrophoretic filtration; Fluorescence; Chlorosome isolation; (*C. aurantiacus*) (Griebenow, K. (973) 235)

Pyrophosphate; Fructose 2,6-bisphosphate; Sucrose synthesis; Fluoride; (Spinach) (Quick, P. (973) 263)

Manganese; Histidine; Oxygen evolution; D1 protein; (Wheat) (Tamura, N. (973) 281)

Photosystem II; Reaction center; Charge separation; Cytochrome *b*-559; (*Synechocystis* 6803) (Gounaris, K. (973) 296)

State transition; Fluorescence; Linear dichroism; Phycobilisome; (*P. cruentum*); (*Synechococcus* sp. PCC 6301) (Brimble, S. (973) 315)

Chemiluminescence; Electron transport; Thermoluminescence; Chloroplast preparation (Rózsa, Z. (973) 350)

Light harvesting; Energy transfer; Transposon mutagenesis; Antenna complex; (*Rb. sphaeroides*) (Hunter, C.N. (973) 383)

Calcium extraction; Oxygen evolution; S state; Thermoluminescence; ESR (Ono, T.-a. (973) 443)

Oxygen evolution; Manganese; ESR (Andréasson, L.-E. (973) 465)

Bicarbonate effect; Electron transfer; Quinone; Photosynthetic bacterium; Chromatophore; Reaction center; Electron acceptor complex; (*Rb. sphaeroides*) (Shopes, R.J. (974) 114)

Electron spin polarization; ESR; Reaction center; Deuteration; (*Rb. sphaeroides*) (Feezel, L.L. (974) 149)

Manganese; Oxygen evolution; D1 protein; Histidine; *Scenedesmus* mutant (LF-1) (Seibert, M. (974) 185)

Reaction center; Cytochrome bc_1 complex; Cyclic electron transfer; Proton pumping; Liposome reconstitution; (*Rb. sphaeroides*); (*Rb. capsulatus*) (Crielaard, W. (974) 211)

Energy transfer; Chlorophyll photobleaching; Chlorophyll fluorescence; Photosystem II (Jennings, R.C. (975) 29)

Etiolated cell; Chloroplast development; Photosystem I; Fluorescence decay; Photon counting; (*C. reinhardtii*) (Chan, C.K. (975) 59)

Diuron; Herbicide; Photosystem II; (*C. reinhardtii*) (Galloway, R. (975) 66)

Bacterial photosynthesis; Energy transfer; Picosecond spectroscopy; Fluorescence; Bacteriochlorophyll; (*Rb. sphaeroides*) (Shimada, K. (975) 72)

Optoacoustic spectroscopy; Energy storage; Energy transfer; Photosynthetic bacterium; (*Rsp. rubrum*) (Nitsch, C. (975) 88)

Photosystem II; Cytochrome *b*-559; Reaction center structure; Extinction coefficient (Miyazaki, A. (975) 142)

S-state system; Oxygen evolving complex; Stabilizer; Filamentous cyanobacterium (Bader, K.P. (975) 399)

Chlorophyll *a*; Resonance Raman; Hydrogen bonding; Intermolecular interaction; Spectroscopy (Krawczyk, S. (976) 140)

Thylakoid membrane; Phycobilisome; Photosystem stoichiometry; Protein phosphorylation; (Cyanobacterium) (Sanders, C.E. (976) 168)

Bacterial photosynthesis; Reaction center; Raman spectroscopy; (*Rps. viridis*) (Zhou, Q. (977) 10)

Photosystem II; Oxygen evolution; Reaction center; (*E. gracilis*) (Mizobuchi, A. (977) 26)

Reaction center; Bacterial photosynthesis; Delayed fluorescence; Magnetic field effect; (*Rb. sphaeroides*) (Goldstein, R.A. (977) 70)

Reaction center; Bacterial photosynthesis; Delayed fluorescence; Magnetic field effect; (*Rb. sphaeroides*) (Goldstein, R.A. (977) 78)

Electron transfer dynamics; Reaction center; Charge separation (Bacterium) (Friesner, R.A. (977) 99)

Electron transfer; Reaction center; Bacterial photosynthesis; (*Rps. viridis*) (Krishtalik, L.I. (977) 200)

Semiquinone iron; Triplet state; Radical pair state; Photoinhibition; Plastoquinone (Van Mieghem, F.J.E. (977) 207)

Protein, 33 kDa; Oxygen evolution; Photosystem II; (Spinach) (Eaton-Rye, J.J. (977) 219)

Superexchange mechanism; Reaction center; Charge separation; Quantum mechanics; Franck-Condon factor (Bixon, M. (977) 273)

Chlorophyll; Fluorescence quenching; Quantum yield; Non-photochemical quenching; (Barley) (Quick, W.P. (977) 287)

Extrinsic protein; Oxygen evolution; Photosystem II; (Spinach) (Miyao, M. (977) 315)

Photosynthesis, bacterial
Excitation transfer; Picosecond fluorescence; Fluorescence; Light harvesting antenna; Excitation annihilation; (*Rb. sphaeroides*); (*Chr. minutissimum*) (Freiberg, A. (973) 93)

Photosynthesis, C_4
Carbon assimilation; Chlorophyll fluorescence; (*Zea*); (*Amaranthus*); (Leaf) (Doncaster, H.D. (973) 176)

Photosynthetic bacteria
Reaction center; Single crystal; Carotenoid; Triplet state; (*Rb. sphaeroides* 2.4.1) (Taremi, S.S. (973) 86)

TMAO/DMSO reductase; Electron transport; Cytochrome *c*-556; Periplasmic protein; (*Rb. capsulatus*) (McEwan, A.G. (973) 308)

Proton translocation; Proton diffusion; Cytochrome bc_1 complex; (*Rb. capsulatus*) (Jones, M.R. (975) 34)

Electron transfer; Supercomplex; Reaction center; Cytochrome; (*Rb. sphaeroides*) (Joliot, P. (975) 336)

Photosynthetic bacterium
Respiration, bacterial; Cytochrome *c*; Electron transfer; (Rhodospirillaceae) (Lavorel, J. (973) 290)

Bicarbonate effect; Electron transfer; Quinone; Chromatophore; Reaction center; Electron acceptor complex; Photosynthesis; (*Rb. sphaeroides*) (Shopes, R.J. (974) 114)

Photosynthesis; Optoacoustic spectroscopy; Energy storage; Energy transfer; (*Rsp. rubrum*) (Nitsch, C. (975) 88)

Photosynthetic electron flow
Phospholipid distribution; Thylakoid membrane; Phosphatidylcholine; Phosphatidylglycerol; (Spinach chloroplast) (Siegenthaler, P.-A. (975) 104)

Photosynthetic electron transport
Carbon assimilation; Chlorophyll fluorescence; Light intensity; (Spinach); (Barley) (Stitt, M. (973) 241)

Cytochrome *b*-559; Photosystem I; Photosystem II; (Spinach chloroplasts) (Ortega, J.M. (975) 244)

Thermodynamics; Stochastic process; Bacterial reaction center (Lavergne, J. (975) 346)

Photosynthetic pigment
Phycoerythrin 566; Biliprotein; Energy migration; Fluorescence; Cryptoviolin (Guard-Friar, D. (973) 118)

Photosystem I
Excitation energy distribution; Light state transition; Cytochrome *f* photooxidation; P-700 photooxidation; (Red algae) (Rehm, A.M. (973) 131)

Chlorophyll fluorescence (Stahl, U. (973) 198)

Reaction center; Core protein; P-700; Iron-sulfur center; Chaotropic agent; (*Synechococcus* PCC 6301); (*A. nidulans*) (Parrett, K.G. (973) 324)

Photosynthesis; Etiolated cell; Chloroplast development; Fluorescence decay; Photon counting; (*C. reinhardtii*) (Chan, C.K. (975) 59)

Cytochrome *b*-559; Photosynthetic electron transport; Photosystem II; (Spinach chloroplasts) (Ortega, J.M. (975) 244)

P-700; Differential absorption coefficient; Detergent; (*S. elongatus*) (Sonoike, K. (976) 210)

Electron transport; Catalytic hydrogenation; Lipid saturation; Thermal stability (Vigh, L. (979) 361)

Photosystem I structure
Electron microscopy; Image analysis; (*Synechococcus*) (Boekema, E.J. (974) 81)

Photosystem II
O_2 evolution; H_2O_2 formation; Sucrose effect; Catalase effect; (Spinach) (Wydrzynski, T. (973) 23)

Luminescence; S state; Q_A acceptor (Sundblad, L.-G. (973) 47)

Photosynthesis; Thylakoid membrane; Oxygen evolution; Diuron binding (Chow, W.S. (973) 105)

D1-protein; Electron donor (Z); Peptide mapping; Tyrosine residue (Takahashi, Y. (973) 138)

Oxygen evolution; Cyanobacterium; (*P. laminosum*) (Rolfe, S.A. (973) 220)

Photosynthesis; Reaction center; Charge separation; Cytochrome *b*-559; (*Synechocystis* 6803) (Gounaris, K. (973) 296)

Manganese; Electron spin echo spectroscopy; Spin lattice relaxation time; Oxygen evolution (Evelo, R.G. (973) 428)

Water oxidation; Electron transfer; pH effect (Meyer, B. (974) 36)

Reaction Center; Chlorophyll binding protein; ESR; Raman spectroscopy (Ghanotakis, D.F. (974) 44)

CP29; Chlorophyll *ab* antenna (Camm, E.L. (974) 180)

LHC II; Fluorescence; Chloroplast; Phosphorylation; Protein kinase; (Spinach leaf) (Islam, K. (974) 261)

ATP-γ-S; Fluorescence; Thylakoid; Chloroplast; Phosphorylation; (Spinach leaf) (Islam, K. (974) 267)

Mass spectrometry; Filamentous cyanobacterium; Respiration; Hydrogen peroxide; (*O. chalybea*) (Bader, K.P. (974) 303)

Energy transfer; Chlorophyll photobleaching; Chlorophyll fluorescence; Photosynthesis (Jennings, R.C. (975) 29)

Fluorescence induction; Chlorophyll fluorescence; DCMU (Hsu, B.-D. (975) 44)

Diuron; Herbicide; Photosynthesis; (*C. reinhardtii*) (Galloway, R. (975) 66)

Arginine; Enzyme characterization; Cyanobacterium; (*Synechococcus* sp.) (Meyer, R. (975) 80)

Thylakoid membrane; Membrane protein topography; Cytochrome *b*-559; Immunocytochemistry; Monoclonal antibody (Vallon, O. (975) 132)

Photosynthesis; Cytochrome *b*-559; Reaction center structure; Extinction coefficient (Miyazaki, A. (975) 142)

Cytochrome *b*-559; Photosynthetic electron transport; Photosystem I; (Spinach chloroplasts) (Ortega, J.M. (975) 244)

Electron transfer; Photoacoustic spectroscopy; Energy storage; Plastoquinone (Carpentier, R. (975) 370)

Calcium ion; Water oxidation; Photoactivation; Manganese complex; (Wheat) (Tamura, N. (976) 173)

Oxygen evolution; Reaction center; Photosynthesis; (*E. gracilis*) (Mizobuchi, A. (977) 26)

Oxygen evolution; Extrinsic protein; Light harvesting chlorophyll II; Calcium; (Spinach) (Enami, I. (977) 33)

Electron transfer; P-680; (*Synechococcus* sp.) (Gerken, S. (977) 52)

Electron acceptor; Iron semiquinone; Bacterial photosynthesis; (*P. laminosum*) (Hubbard, J.A.M. (977) 91)

Chlorophyll protein; Isoelectric focusing; LHC II heterogeneity; Light harvesting (Spangfort, M. (977) 163)

Protein, 33 kDa; Oxygen evolution; Photosynthesis; (Spinach) (Eaton-Rye, J.J. (977) 219)

Cytochrome *b*-559 D_1D_2 complex; Intermediate electron acceptor; Pheophytin; ENDOR (Lubitz, W. (977) 227)

Chlorophyll-protein complex; CP29; Ion-exchange HPLC; Light harvesting; Amino acid sequence, partial; (Spinach) (Henrysson, T. (977) 301)

Extrinsic protein; Oxygen evolution; Photosynthesis; (Spinach) (Miyao, M. (977) 315)

Lipid–protein interaction; Spin label; Saturation transfer ESR; ESR (Li, G. (987) 187)

Carbon assimilation; Chlorophyll fluorescence; Electron transport; Fluorescence quenching; Quantum yield (Genty, B. (990) 87)

Photosystem II reaction center
Copper inhibition; Primary photochemistry; Chlorophyll fluorescence; Electron transport; (Pea chloroplasts) (Renganathan, M. (974) 247)

Photosystem stoichiometry
Photosynthesis; Thylakoid membrane; Phycobilisome; Protein phosphorylation; (Cyanobacterium) (Sanders, C.E. (976) 168)

Phototrophic bacterium
Sulfur oxidation; Electron transport (Brune, D.C. (975) 189)

pH regulation
Water permeability; Amniotic fluid; (Human amnion) (Porta, M. (980) 220)

pH, cytoplasmic; Proton pump; Intracellular buffering; Membrane permeability; (*D. discoideum*) (Inouye, K. (1012) 64)

Phycobilisome
Energy transfer; Fluorescence; Photosynthesis; Picosecond spectroscopy; (Cyanobacterium); (*A. variabilis* (M-3)) (Mimuro, M. (973) 153)

State transition; Fluorescence; Linear dichroism; Photosynthesis; (*P. cruentum*); (*Synechococcus* sp. PCC 6301) (Brimble, S. (973) 315)

Photosynthesis; Thylakoid membrane; Photosystem stoichiometry; Protein phosphorylation; (Cyanobacterium) (Sanders, C.E. (976) 168)

Phycobilisome mutant
Cyanobacterium; State transition; (*Synechococcus* sp. PCC 7002) (Bruce, D. (974) 66)

Allophycocyanin-B deletion; Energy transfer (Maxson, P. (977) 40)

Phycoerythrin 566
Biliprotein; Photosynthetic pigment; Energy migration; Fluorescence; Cryptoviolin (Guard-Friar, D. (973) 118)

Phylogenetic relationship
Amino acid sequence; Hemoglobin, dimeric; Globin; (*C. soyoae*) (Suzuki, T. (999) 254)

Phytochrome
Chromophore; Circular dichroism; Tetrapyrrole; Topography; (Oat) (Singh, B.R. (996) 62)

Phytoferritin
Metal binding; Nonferrous metal; Synthetic iron core; Ferritin (Sczekan, S.R. (990) 8)

Phytohemagglutinin
Cholesterogenesis; Inhibition; Cell division; (Human lymphocyte) (Tabacik, C. (1011) 149)

T lymphocyte; Interleukin 2; Phosphoinositide turnover; Cell proliferation; (Human) (Korichneva, I.L. (1014) 173)

Phytosterol
Fatty acid desaturase; Fatty acid composition; Lipid composition; Membrane fluidity; (Rat liver microsome) (Leikin, A.I. (1005) 187)

Sterol binding protein; Vitamin D-3; (*P. vulgaris*) (Vega, M.A. (1012) 10)

Picosecond fluorescence
Photosynthesis, bacterial; Excitation transfer; Fluorescence; Light harvesting antenna; Excitation annihilation; (*Rb. sphaeroides*); (*Chr. minutissimum*) (Freiberg, A. (973) 93)

Picosecond spectroscopy
Energy transfer; Fluorescence; Photosynthesis; Phycobilisome; (Cyanobacterium); (*A. variabilis* (M-3)) (Mimuro, M. (973) 153)

Photosynthesis; Bacterial photosynthesis; Energy transfer; Fluorescence; Bacteriochlorophyll; (*Rb. sphaeroides*) (Shimada, K. (975) 72)

Pigment protein
Optical cross section; Poisson distribution; Trap; Reaction center; Single turnover flash; Quantum requirement; Energy transfer; Fluorescence induction; Antenna, light-harvesting (Mauzerall, D. (974) 119)

Pigment-protein complex
Carotenoid band shift; Reaction center; Light harvesting complex; Reconstitution; (*Rb. sphaeroides*) (Crielaard, W. (973) 205)

P_i-induced swelling
Mitochondrion; EDTA; EGTA; Adenine nucleotide; (Rat liver) (Lund, P. (975) 330)

Pituitary
Triiodothyronine; Response element; Gene expression; Thyrotrophin; Prolactin (Ahlquist, J.A.O. (1008) 251)

Pituitary bovine growth hormone
NMR, ^{1}H-; Histidine residue (MacKenzie, N.E. (994) 166)

Pituitary cell
Thyrotropin; Calcium; Potassium depolarization; Phosphoinositide; Cytoplasmic calcium; (Bovine) (Wood, C.A. (1013) 97)

Placenta
Glutathione transferase; Protein phosphorescence; (Human) (Arduini, A. (999) 203)

Placental epithelium
Dicarboxylate transport; Cotransport; Succinate uptake; (Human) (Ogin, C. (980) 248)

Placental microvillous membrane
Urokinase; Plasminogen activator inhibitor (Jensen, P.H. (986) 135)

Planar bilayer
Ganglioside; Calcium; Serotonin (Matinyan, N.S. (984) 313)

Planar lipid bilayer
Hydrophobic ion; Wave guide spectroscopy (Braun, H.P. (978) 223)

Planar membrane
Des(ethanolamine)-taurine^{16}-gramicidin A; Gramicidin A, [Tau^{16}]-; Single-channel conductance; Ion channel (Roeske, R.W. (982) 223)

Planar multibilayer
Phosphatidylcholine; ESR; Spin label; Order parameter; Rotational dynamics (Korstanje, L.J. (980) 225)

Plant plasmalemma
Sucrose carrier; Sucrose transport; Plant plasma membrane; Protein, 42 kDa; Differential affinity labeling; (Sugar beet) (Gallet, O. (978) 56)

Sucrose carrier; Sucrose transport; Plant plasma membrane; Polyclonal antibody; Protein, 42 kDa; (Sugar beet) (Lemoine, R. (978) 65)

Plant plasma membrane
Sucrose carrier; Sucrose transport; Plant plasmalemma; Protein, 42 kDa; Differential affinity labeling; (Sugar beet) (Gallet, O. (978) 56)

Sucrose carrier; Sucrose transport; Plant plasmalemma; Polyclonal antibody; Protein, 42 kDa; (Sugar beet) (Lemoine, R. (978) 65)

Plasma
Lipoprotein metabolism; Apolipoprotein A-IV; Lymph; (Rat) (Ghiselli, G. (1006) 26)

Plasma cholesterol
LDL receptor; LDL; Lipoprotein metabolism; (Human liver) (Nanjee, M.N. (1002) 245)

Glucagon; Lipoprotein; Apoprotein; Cholesterol; (Rat) (Guettet, C. (1005) 233)

Plasmalemma
Hexabromoiridate (IV); Hexacyanoferrate (III); Hexachloroiridate (IV); Redox; (*Z. mays* L.) (Lüthje, S. (977) 335)

Plasma lipoprotein
Lipoprotein (a); Hormonal regulation; Lipoprotein metabolism; (Hedgehog) (Laplaud, P.M. (1005) 143)

Plasmalogen deficiency
Membrane fluidity; Fluorescence anisotropy; Lipid mobility; (Human skin fibroblast) (Hermetter, A. (978) 151)

Plasma membrane
Sulfobromophthalein; Sulfhydryl group; Electrogenic transport; (Rat liver) (Passamonti, S. (979) 294)

Bilitranslocase; Sulfobromophthalein; Electrogenic transport; (Rat liver) (Miccio, M. (981) 115)

ATPase; Yeast; Detergent activation; Vesicle sidedness (Monk, B.C. (981) 226)

Flavin; Riboflavin; Autofluorescence; Fluorescence photobleaching recovery; FRAP; (Rat liver) (Nokubo, M. (981) 303)

Divalent cation; Proton; Calcium ion, extracellular; Hemolytic agent; Membrane damage; Zinc ion, extracellular (Bashford, C.L. (983) 56)

Taurocholate transporter; Radiation inactivation; (Rat liver) (Elsner, R. (983) 113)

Transcortin; (Human endometrium) (Avvakumov, G.V. (984) 143)

Electropermeabilization; cyclic AMP; β-Adrenergic receptor; C6 glioma cell; GTP (Volker, T.T. (984) 243)

ATPase, H^+-; Transport ATPase; Essential histidine; Histidine residue; Membrane transport (Morjana, N.A. (985) 19)

S-Adenosyl-L-methionine; Leukemia; HL-60 cell (Duerre, J.A. (985) 211)

Syringomycin; Potassium ion efflux; ATPase, H^+-; (*S. cerevisiae*); (*R. pilimanae*) (Zhang, L. (987) 171)

Adenosine; Membrane viscosity; Receptor display; Neutrophil (Cronstein, B.N. (987) 176)

HDL; Cholesteryl ester; Selective uptake; Murine adrenocortical cell; Cholesteryl ether (Knecht, T.P. (1002) 365)

Phospholipase A; Phospholipid retailoring; (*Tetrahymena*) (Horváth, I. (1002) 409)

Alkylmethylglycerophosphocholine; Antineoplastic phospholipid; PAF analog (Vallari, D.S. (1006) 250)

Insulin receptor; Insulin processing; Insulin resistance; (Rat adipocyte) (Fernig, D.G. (1010) 237)

Plasma membrane barrier
β-Adrenergic receptor; Agonist binding; Mononuclear leukocyte; (Human) (Fratelli, M. (1012) 178)

Plasma membrane calcium ion inflow
Metal ion inhibitor; Calcium ion channel; Calcium receptor; (Rat hepatocyte) (Hughes, B.P. (1013) 197)

Plasma membrane protein
Spherulation; Spherulin 4; mRNA; Development; (*P. polycephalum*) (Savard, L. (1007) 264)

Plasma membrane vesicle
Glycine transport; Glial cell; Chloride ion (Zafra, F. (979) 147)

Plasma protein
Liposome stability; Cholesterol; Octyl glucoside (Liu, D. (981) 254)

Plasmid DNA
Singlet molecular oxygen; Single strand breaks; Bacteriophage DNA; DNA; Transforming activity; (*E. coli*) (Di Mascio, P. (1007) 151)

Nucleosome reconstitution; Long terminal repeat; (Chicken histone); (Moloney murine leukemia virus LTR) (Kimura, T. (1007) 318)

Plasmid RK2
DNA replication; Broad host range; *trfA* gene; (*E. coli*); (*P. aeruginosa*); (*P. putida*) (Shingler, V. (1007) 301)

Plasmin
Thrombin; Antithrombin III; Protein degradation; (Mouse hepatocyte) (Spolarics, Z. (1012) 231)

Plasminogen
α_2-Antiplasmin; Serpin; Proteinase inhibitor; *cis*-Dichlorodiammineplatinum(II) (Geary, W.A. (994) 1)

Kringle 4 structure; Antifibrinolytic; Photo-CIDNP experiment; Protein NMR; NMR, protein (De Marco, A. (994) 121)

Heparin binding; Lysine residue (Soeda, S. (999) 29)

Plasminogen activator
Bioassay; Lectin (Electricwala, A. (990) 53)

Thrombolysis; t-PA; Fibrin; NMR; Compartmentalized water (Azoury, R. (995) 295)

Recombinant tissue type plasminogen activator; Vascular plasminogen activator; Kinetics; Amino acid sequence; Carbohydrate composition; (Human) (Hamaguchi, M. (1009) 143)

intracellular cyclic AMP; Endothelial secretion; Inhibitor; Signal transduction; (Human umbilical cord cell) (Francis, Jr, R.B. (1012) 207)

Osteoblast; Collagen degradation; 1,25-Dihydroxyvitamin D-3; Collagenase; Metalloproteinase; Tissue inhibitor of metalloproteinases; (Mouse) (Thomson, B.M. (1014) 125)

Plasminogen activator inhibitor
Urokinase; Placental microvillous membrane (Jensen, P.H. (986) 135)

Plasminogen activator inhibitor 1
Fibrinolysis; Vitronectin; Protein–protein interaction; Fibrosarcoma; (Fibrosarcoma cell-line HT1080) (Lindahl, T. (994) 253)

Plasticizer
Di(2-ethylhexyl) phthalate; Calcium ion transport; Adenine nucleotide translocator; Mitochondrion; (Rat liver) (Kora, S. (985) 286)

Plastocyanin
Cytochrome *c*-553; Adsorption chromatography; Cyanobacteria; Photosynthesis (Tan, S. (973) 111)

Cytochrome *f*; Electron transport; Chemical modification (Adam, Z. (975) 158)

Plastoquinone
Photosystem II; Electron transfer; Photoacoustic spectroscopy; Energy storage (Carpentier, R. (975) 370)

Semiquinone iron; Triplet state; Radical pair state; Photoinhibition; Photosynthesis (Van Mieghem, F.J.E. (977) 207)

Platelet
Transferrin; Iron release; Adenine nucleotide; (Human) (Brieland, J.K. (978) 191)

Electropermeabilization; Drug delivery; (Rat); (Human) (Hughes, K. (981) 277)

PAF; PAF synthesis; Leukocyte (Sturk, A. (993) 148)

Tropomyosin; Caldesmon; Actomyosin; Smooth muscle (Onji, T. (999) 248)

Lysophosphatidic acid; Thrombin; Phospholipase A_2; (Human) (Gerrard, J.M. (1001) 282)

Phospholipase A_2; Inflammation; Circulation; (Rat) (Murakami, M. (1005) 270)

Signal transduction; Protein kinase C; Sphingosine; (Human) (Krishnamurthi, S. (1010) 258)

Prostaglandin endoperoxide H_2; Prostacyclin; Thromboxane; Coronary artery; Prostacyclin synthase (Mayeux, P.R. (1011) 18)

Inositol 1,4,5-trisphosphate; cyclic AMP; Calcium ion release; Saponin; (Human) (Tohmatsu, T. (1013) 190)

Platelet activating factor
see PAF

Platelet activation
Glycoprotein; GP IIb-IIIa; cyclic AMP; Inositol phosphate; Protein phosphorylation; Fibrinogen (Sinigaglia, F. (984) 225)

Dietary fatty acid; Fluorescence anisotropy; Membrane fluidity; Thromboxane; (Rat platelet) (Heemskerk, J.W.M. (1004) 252)

Platelet protein; Palmitoylation; Protein; Fatty acylation (Huang, E.M. (1011) 134)

Platelet aggregation
Platelet membrane potential; Calcium ion influx; Sodium ion conductance; (Human blood) (Palés, J. (980) 33)

Calcium ion transport; Indo-1; ATP secretion; (Human blood) (Magócsi, M. (984) 88)

Snake venom; Triwaglerin; (*T. wagleri*) (Teng, C.-M. (992) 258)

Calcium ion mobilization; Structure–activity relationship; Phenol derivative; Fluorescence; (Bovine platelet) (Kitagawa, S. (1011) 52)

Ionophore; Sodium ion, intracellular; Calcium ion mobilization; pH, intracellular; (Bovine blood) (Kitagawa, S. (1011) 117)

PAF; Isoproterenol; Sodium ion/calcium ion exchange (Kester, M. (1014) 195)

Platelet aggregation inhibitor
Epinephrine-induced aggregation; ADP-effected aggregation; Carbamoylpiperidinoalkane; *N*-Alkylnipecotoylpiperazine; Structure–activity relationship; (Human blood) (Petrusewicz, J. (983) 161)

Carbamoylpiperidinoalkane; *N*-Alkylnipecotoylpiperazine; Serotonin release inhibitor; Platelet factor 4 release inhibitor; Structure-activity relationship; Dense body; α-Granule; Platelet plasma membrane (Dillingham, E.O. (990) 128)

Platelet derived growth factor
Protein p68; Growth factor; Protein kinase C; Macrophage colony stimulating factor; Insulin; (Placental syncytiotrophoblast) (Kenton, P. (1014) 271)

Platelet desensitization
Arachidonic acid; U46619 binding; Lipid phase fluidity; Platelet membrane; (Human) (Sato, T. (992) 168)

Platelet factor 4 release inhibitor
Carbamoylpiperidinoalkane; *N*-Alkylnipecotoylpiperazine; Platelet aggregation inhibitor; Serotonin release inhibitor; Structure-activity relationship; Dense body; α-Granule; Platelet plasma membrane (Dillingham, E.O. (990) 128)

Platelet function
Digitonin; Platelet permeabilization; (Human) (Lineberger, B. (1012) 36)

Platelet granule
Adherence inhibiting factor; Neutrophil adherence; Protein purification; (Guinea pig) (Iwabuchi, K. (999) 183)

Platelet heterogeneity
Electrokinetics; Flow electrophoresis; Taxol; (Human) (Crook, M. (1014) 26)

Platelet inhibition
Panaxynol; Ginsenoside; Thromboxane formation; (*P. ginseng*) (Teng, C.-M. (990) 315)

Platelet membrane
Detergent; Cell lysis; Leakage; Component solubility; Electron microscopy; Aggregation; (Human blood) (Shiao, Y.-J. (980) 56)

Glycoprotein IIIa; Proteolytic product (Niewiarowski, S. (983) 91)

cyclic AMP; Phosphodiesterase; (Human blood) (Kahn, N.N. (984) 113)

Ganodermic acid S; Aggregation; Phosphoinositide metabolism; Electron microscopy; (Human blood) (Wang, C.-N. (986) 151)

Arachidonic acid; Platelet desensitization; U46619 binding; Lipid phase fluidity; (Human) (Sato, T. (992) 168)

Calcium ion release; Arachidonic acid; Inositol trisphosphate; Fura-2; (Human) (Tohmatsu, T. (1012) 97)

Platelet membrane potential
Platelet aggregation; Calcium ion influx; Sodium ion conductance; (Human blood) (Palés, J. (980) 33)

Platelet microtubule
Digitonin; Platelet permeabilization; (Human) (Berry, S. (1012) 46)

Platelet permeabilization
Platelet function; Digitonin; (Human) (Lineberger, B. (1012) 36)

Platelet microtubule; Digitonin; (Human) (Berry, S. (1012) 46)

Platelet plasma membrane
Carbamoylpiperidinoalkane; *N*-Alkylnipecotoylpiperazine; Platelet aggregation inhibitor; Serotonin release inhibitor; Platelet factor 4 release inhibitor; Structure-activity relationship; Dense body; α-Granule (Dillingham, E.O. (990) 128)

Platelet protein
Platelet activation; Palmitoylation; Protein; Fatty acylation (Huang, E.M. (1011) 134)

PMN-granulocytic elastase
Proteinase inhibitor; Inter-α-trypsin inhibitor; Pancreatic elastase (Rasp, G. (999) 335)

***pnd*$^+$ gene**
Nucleotide sequence; Gene expression; Magnesium efflux; RNA degradation; (*E. coli*) (Sakikawa, T. (1007) 158)

Pneumolysin
Protein purification; recombinant DNA; Gene expression; (*S. pneumoniae*) (Mitchell, T.J. (1007) 67)

Point mutation
Bacteriophage α3; Origin mutant; Secondary structure; DNA sequence (Kodaira, K.-I. (1007) 359)

Poisson distribution
Optical cross section; Trap; Reaction center; Single turnover flash; Quantum requirement; Energy transfer; Fluorescence induction; Antenna, light-harvesting; Pigment protein (Mauzerall, D. (974) 119)

Polar headgroup stereoconfiguration
Phosphatidylglycerol; Monovalent cation; Phase behavior; DSC (Salonen, I.S. (982) 205)

Polarized fluorescence
Caldesmon; Actin–myosin interaction; Ghost fiber (Nowak, E. (999) 289)

Polar lipid
Phosphatidylethanolamine; Acylornithine; Fatty acid; (*P. cepacia*) (Cox, A.D. (1001) 60)

Polyacrylamide gel electrophoresis
Protein valency; Protein charge; Donnan potential (Öjteg, G. (991) 317)

Polyadenylation site
Insulin-like growth factor II gene; (Rat cDNA) (Ueno, T. (1009) 27)

Poly(ADP-ribose) metabolism
Cell killing; DNA single-strand break; Hydrogen peroxide; (Chinese hamster ovary cell) (Cantoni, O. (1014) 1)

Poly(ADP-ribose) polymerase
Lymphocyte activation; Eukaryotic differentiation; Mitogen stimulation; Northern blotting; (Human) (McNerney, R. (1009) 185)

Poly(ADP-ribosylation)
Nuclear protein; Spermatogenesis; (Rat) (Quesada, P. (1007) 167)

Polyamine
Spermine; Spermidine; (Red blood cell) (Elworthy, P. (993) 212)

Eukaryotic initiation factor 4D; Deoxyhypusine; Deoxyhypusine hydroxylase; Hypusine; Posttranslational modification; (Eukaryote) (Abbruzzese, A. (997) 248)

Putrescine; Sodium ion dependent transport; Polyamine transport; (Renal cell line) (De Smedt, H. (1012) 171)

Pancreatic islet; L-Arginine; L-Ornithine; (Rat) (Malaisse, W.J. (1013) 133)

Pancreatic islet; L-Arginine; L-Ornithine; (Rat) (Blachier, F. (1013) 144)

Polyamine metabolism
Lens; Polyamine uptake; Active transport; (Rat) (Maekawa, S. (993) 199)

Polyamine oxidase
Peroxisome; Spermine; N^1-Acetylspermine (Hayashi, H. (991) 310)

Polyamine transport
Polyamine; Putrescine; Sodium ion dependent transport; (Renal cell line) (De Smedt, H. (1012) 171)

Polyamine uptake
Lens; Active transport; Polyamine metabolism; (Rat) (Maekawa, S. (993) 199)

Polycation
Glycogen synthase; Glycogen synthase kinase 3; Protein phosphorylation; Inhibitor; (Rabbit skeletal muscle) (Hegazy, M.G. (1011) 198)

Protein phosphatase-1; Protein phosphatase-2A; Heparin-Sepharose; Thymocyte; (Rat) (Bakó, É. (1013) 300)

Polychlorinated biphenyl
Cytochrome *P*-450; (Monkey); (Human) (Ohta, K. (996) 142)

Polyclonal antibody
Sucrose carrier; Sucrose transport; Plant plasmalemma; Plant plasma membrane; Protein, 42 kDa; (Sugar beet) (Lemoine, R. (978) 65)

Cellulase; Exocellobiohydrolase; Lactose; (*T. emersonii*) (Hackett, T.J. (991) 248)

Apolipoprotein; Epitope characterization; (Oilseed); (*Cruciferae*) (Au, D.M.Y. (1005) 97)

Polydeoxynucleotide
Time resolved fluorescence; Fluorescence (Barcellona, M.L. (993) 174)

Polydispersity
Polyene antibiotic; Amphotericin B; Bile salt; Deoxycholate; Spin label (Lamy-Freund, M.T. (981) 207)

Poly(DL-lysine)polymerization
Colloid uptake; Tumor cell; Surface charge; (P388 ascites leukemia cell) (Anghileri, L.J. (982) 307)

Polyene antibiotic
Amphotericin B; Bile salt; Deoxycholate; Polydispersity; Spin label (Lamy-Freund, M.T. (981) 207)

Membrane binding; Membrane fluidity; Fluorescence probe; Thymocyte; Fluorescence anisotropy (Henry-Toulmé, N. (982) 245)

Amphotericin B; Calcium ion permeability; Liposome; Large unilamellar vesicle; Cholesterol; Ergosterol; Arsenazo III (Ramos, H. (982) 303)

Filipin; Phosphatidylcholine; Dimyristoylphosphatidylcholine; Large unilamellar vesicle; Circular dichroism (Milhaud, J. (987) 193)

Polyene macrolide
Large unilamellar vesicle; Antifungal antibiotic; NMR, ^{31}P- (Hervé, M. (980) 261)

Poly(ethylene glycol)
Phase partition; Lipid vesicle; Partitioning kinetics; Vesicle size (Tilcock, C. (979) 208)

Membrane fusion; Glycocalyx structure; Volume exclusion; ESR; Freeze-fracture; (Human erythrocyte membrane) (Pratsch, L. (980) 146)

ATPase, Ca^{2+}-; Enzyme stability; Detergent; (Sarcoplasmic reticulum) (Welte, W. (984) 193)

Phase partition; Dextran; Lipid asymmetry; Surface charge (Tilcock, C. (986) 167)

Superoxide dismutase; Free radical; Spin trapping; (Human neutrophils) (Pou, S. (991) 459)

Aqueous two-phase system; Partitioning; Free volume (Eiteman, M.A. (992) 125)

Glycolytic enzyme; Tubulin; Microtubule; Microtrabeculae; Cytomatrix (Walsh, J.L. (999) 64)

Poly IC
Benzene; Immunotoxicity; Immunomodulator; Bone marrow; Interferon (Pandya, K.P. (992) 23)

Polyisoprenoid
Dolichol; Dolichyl phosphate; Cholesterol; Aging; (Mouse kidney); (Mouse liver) (Crick, D.C. (1004) 180)

Polylactosamine type glycopeptide
Glycopeptide; Glycopeptide biosynthesis; (Rat hepatoma ascites cell) (Saunier, B. (1011) 110)

Poly(L-lysine)
Bilirubin; Induced circular dichroism; Dimer/oligomer; Absorption/circular dichroism spectrum; Alpha helix conformation (Bouvier, M. (991) 303)

Polypeptide conformation; FT-IR; Molar absorptivity (Jackson, M. (998) 75)

Polylysine
Band 3 protein; Melittin; Zinc ion; Erythrocyte membrane; Aggregation (Clague, M.J. (980) 93)

Apocytochrome *c*; Cytochrome *c*; Lysozyme; Peripheral protein; Spin label; ESR (Sankaram, M.B. (986) 315)

Polymerase chain reaction
Mitochondrial myopathy; mitochondrial DNA; S_1 nuclease; Heteroduplex; Oligonucleotide primer (Tanaka-Yamamoto, T. (1009) 151)

Polymerization
Hemolysin; Invertebrate; Sphingomyelin; Complement; Membrane lesion; (Sheep erythrocyte); (Earthworm) (Roch, P. (983) 193)

Polymorphism
Glycoprotein; Milk fat globule membrane; Mammary epithelia; (Human); (Cow); (Chimpanzee); (Horse) (Patton, S. (980) 333)

Polymorphonuclear leukocyte
Vitamin E; α-Tocopherol; 5-Lipoxygenase; Arachidonic acid release; Phospholipase A_2; (Rat) (Chan, A.C. (1005) 265)

Heavy metal cation; Divalent cation; Granule secretion; Digitonin; Calcium ion; Sulfhydryl oxidation; (Human neutrophil) (Sandborg, R.R. (1010) 330)

Sodium fluoride; Exocytosis, calcium ion dependent; ATP; (Rabbit) (Elferink, J.G.R. (1013) 247)

Polymorphonuclear neutrophil
PAF-acether; Cell concentration; pH, extracellular; (Human) (Leyravaud, S. (1005) 192)

Polymyxin B
Amphipathic alpha-helical peptide; Fusogen; Membrane fusion; Liposome; Cationic peptide; Hydrophobic moment (Suenaga, M. (981) 143)

Spin label; Interdigitation; Lipid bilayer; Phase transition; Polymyxin B nonapeptide (Wang, H.-Y. (985) 182)

Spin label; Interdigitation; Lipid bilayer; Phase transition; Acidic lipid; Polymyxin B nonapeptide (Boggs, J.M. (985) 199)

Polymyxin B nonapeptide
Spin label; Interdigitation; Lipid bilayer; Phase transition; Polymyxin B (Wang, H.-Y. (985) 182)

Spin label; Interdigitation; Lipid bilayer; Phase transition; Acidic lipid; Polymyxin B (Boggs, J.M. (985) 199)

Polypeptide
Harmonic force constant; Side chain (Balázs, A. (998) 215)

Polypeptide conformation
Poly(L-lysine); FT-IR; Molar absorptivity (Jackson, M. (998) 75)

Polypeptide shell
Hemosiderin; Iron core; (Hemochromatosis) (Ward, R.J. (993) 131)

Polyphosphate
NMR, ^{31}P-; Phosphate efflux; (*S. Syringae*) (Reidl, H.H. (1010) 325)

Polyphosphate synthesis
Phosphate starvation; (*S. cerevisiae*); (*K. marxianus*) (Schuddemat, J. (1010) 191)

Polyphosphate utilization
2-Deoxy-D-glucose transport; Sugar phosphorylation; ATP; (*K. marxianus*) (Schuddemat, J. (986) 290)

polyphosphatidylinositol
Myogenesis; Cell–cell recognition; Differentiation; Lithium ion; Inositol (Hausman, R.E. (1013) 92)

Polyphosphoinositide
Fusion; Lysophosphatidylinositol monophosphate; Phosphatidylinositol; Membrane (Wheeler, J.J. (984) 33)

Phospholipase A_2; Nuclear matrix; (Rat ascites hepatoma) (Tamiya-Koizumi, K. (1002) 182)

Neuroblastoma; Neuroblastoma×glioma hybrid; Glioma; Inositol cycle; Cell culture (Glanville, N.T. (1004) 169)

Polyprenol
Dolichol synthesis; Dolichol distribution; (Rat liver microsome) (Sagami, H. (1002) 218)

Poly(rI)·poly(rC)
Interferon; Antiviral chemotherapy; Liposome; Monoclonal antibody; Drug targeting (Milhaud, P.G. (987) 15)

Polyunsaturated fatty acid
Superoxide dismutase deficiency; Autoxidation; (*S. cerevisiae*) (Biliński, T. (1001) 102)

Intestinal transport; Dietary fatty acid; Saturated fatty acid; Ileum; Jejunum; (Rat) (Thomson, A.B.R. (1001) 302)

Fatty acid uptake; Fatty acid oxidation; Desaturation; Chain elongation; Cardiac myocyte; (Rat heart) (Hagve, T.-A. (1001) 338)

Linoleic acid metabolism; *trans*-Fatty acid; α-Linolenic acid; Arachidonic acid; Desaturation; Dietary fat; (Rat) (Zevenbergen, J.L. (1002) 312)

Polyunsaturated fatty acid
Transacylation; Acyl-CoA:lysophospholipid acyltransferase; Ethanolamine plasmalogen; 1,2-Diacylglycero-3-phosphoethanolamine; (Rat brain microsome) (Masuzawa, Y. (1005) 1)

Fatty acid uptake; High density lipoprotein; Cholesteryl ester; (Rat hepatocyte) (Pepin, D. (1006) 52)

Polyunsaturated phospholipid
Phosphatidylcholine; Dimethylethanolamine; Intravenous infusion; (Rat) (Alvaro, D. (1006) 116)

Pore-forming protein
Multi-state channel; Black lipid membrane; (*E. histolytica*) (Keller, F. (982) 89)

Pore protein
Adsorption protein; Phage fd (Glaser-Wuttke, G. (985) 239)

Porin
PhoE; Hybrid protein; Ion selectivity; Charged group; Lipid bilayer; (*E. coli* K-12 membrane) (Benz, R. (981) 8)

Peroxisomal membrane; Conductance channel; Single-channel measurement; Permeability (Lemmens, M. (984) 351)

Mitochondrion; Lipid bilayer; Reconstitution; Ion selectivity; VDAC; (*D. melanogaster*) (De Pinto, V. (987) 1)

Porphyrin
Photosensitizer; Liposome; Membrane–dye interaction; Fluorescence quenching; Spin label (Gross, E. (983) 118)

Hematoporphyin ester; Hydrophobic alcohol (Rimington, C. (992) 241)

Metalloporphyrin; Ferrochelatase; Active site; (Mouse) (Dailey, H.A. (999) 7)

Porphyrin–RNA interaction
NMR; tRNA structure; DNA (Birdsall, W.J. (1007) 176)

Posterior subcapsular cataract
Retinitis pigmentosa; Lipid peroxidation; Lens fiber; Membrane damage; Glutathione; Cataractogenesis; (Human) (Babizhayev, M.A. (1004) 124)

Postnatal development
Fatty acid binding protein; α-Fetoprotein; Immunoassay; Lipid metabolism; (Rat tissue) (Paulussen, R.J.A. (1001) 201)

Posttranslational modification
Eukaryotic initiation factor 4D; Polyamine; Deoxyhypusine; Deoxyhypusine hydroxylase; Hypusine; (Eukaryote) (Abbruzzese, A. (997) 248)

Transcription factor; Eukaryotic transcription (Berk, A.J. (1009) 103)

Posttranslational processing
Superoxide dismutase; Manganese enzyme; Precursor enzyme; cDNA (Wispe, J.R. (994) 30)

Pulmonary surfactant; In vitro translation; (Human adenocarcinoma cell line) (O'Reilly, M.A. (1011) 140)

Posttranslational protein modification
Crystallin; Tryptophan photooxidation; (Calf lens) (Pulcini, D. (995) 64)

Potassium conductance
Anesthetic; (Squid giant axon) (Elliott, A.A. (978) 337)

Potassium depolarization
Thyrotropin; Calcium; Phosphoinositide; Cytoplasmic calcium; Pituitary cell; (Bovine) (Wood, C.A. (1013) 97)

Potassium electrode
Chloride transport; (Human red blood cell); (MDCK cell) (Rothstein, A. (987) 239)

Potassium ferrocyanide
Ligninase; Compound I; Compound II; Hydrogen peroxide; Veratryl alcohol; One electron oxidation; Pre-steady-state kinetics (Harvey, P.J. (994) 59)

Potassium induced swelling
Cell volume; Actin, F-; Potassium ion flux; Lithium ion transport (Kleinzeller, A. (1014) 40)

Potassium ion
ATPase, Na^+/K^+-; Sodium pump; Kinetics; Magnesium ion (Rossi, R.C. (981) 105)

Potassium ion channel
Calcium activated potassium ion channel; Patch clamp; Propanolol; Flux measurement; (Human erythrocyte) (Schwarz, W. (978) 32)

Calcium activated potassium ion channel; Atebrin; Menadione; Oxidoreductase; Lead; (Human erythrocyte) (Fehlau, R. (978) 37)

Proximal tubule; Apical membrane; Patch clamp; (Rabbit) (Merot, J. (978) 134)

Potassium ion transport; Calcium ion dependence; Snake venom; Erythrocyte (Alvarez, J. (980) 134)

Patch clamp; Multiple conductance state; Channel degradation; (Molluscan glial cell) (Geletyuk, V.I. (981) 343)

Divalent cation activation; Voltage activation; Hydrogen ion activation; Cation selectivity; Pancreatic islet cell (Tabcharani, J.A. (982) 62)

Skeletal muscle; Patch clamp; Low-conductance state; (Mouse) (Weik, R. (983) 127)

Calcium ion activated potassium ion channel; Anesthetic; Volatile anesthetic; Glioma cell; Charybdotoxin; Calcium ionophore (Tas, P.W.L. (983) 264)

Cardiac muscle; Tolbutamide; Glibenclamide; Diazoxide; Action potential; ATP sensitive potassium ion channel; (Rat) (Faivre, J.-F. (984) 1)

Single-channel conductance; (Chicken myoblast); (Chicken myotube) (Zemková, H. (986) 146)

Calcium ion, cytosolic; cyclic AMP; Acid secretion; (Rat cultured parietal cell) (Ueda, S. (1012) 254)

Potassium ion efflux
Syringomycin; ATPase, H^+-; Plasma membrane; (*S. cerevisiae*); (*R. pilimanae*) (Zhang, L. (987) 171)

Charybdotoxin; Inhibition; Calcium activated potassium efflux; Sickling-unsickling cycle; (Human sickle red blood cell) (Ohnishi, S.T. (1010) 199)

Calcium ion; Caffeine; Oscillation; cyclic AMP; (*Dictyostelium*) (Aeckerle, S. (1012) 196)

Potassium ion flux
Cell volume; Actin, F-; Potassium induced swelling; Lithium ion transport (Kleinzeller, A. (1014) 40)

Potassium ion/proton cotransport
Membrane potential; Proton efflux; Electrogenic proton pump; Microelectrode measurement; (*D. discoideum*) (Van Duijn, B. (983) 186)

Potassium ion secretory epithelium
Ionic conductance; Chloride channel blocker; Micro-Ussing chamber; (Inner ear) (Marcus, D.C. (987) 56)

Potassium ion transport
Cation transport; Quinine; Sodium ion transport; Calcium ion dependent transport; (Ehrlich cell) (Smith, T.C. (978) 169)

Anisosmotic buffer; (Chicken enterocyte) (Montero, M.C. (979) 269)

Potassium ion channel; Calcium ion dependence; Snake venom; Erythrocyte (Alvarez, J. (980) 134)

N-Ethylmaleimide; Peroxide; Hemoglobin; Thiol; Erythrocyte; (Human) (Sheerin, H.E. (983) 65)

Potassium site
ATPase, Na^+/K^+-; Radiation inactivation; Thallium binding (Jensen, J. (985) 248)

Potassium thiocyanate
Phospholipid bilayer; Phase transition; Interdigitated bilayer; Acyl chain (Cunningham, B.A. (984) 109)

Potentiometry
Reaction center; Cytochrome bc_1 complex; Electron transport; Carotenoid bandshift; (*Rb. sphaeroides*) (Drachev, L.A. (973) 189)

P-700 photooxidation
Photosystem I; Excitation energy distribution; Light state transition; Cytochrome *f* photooxidation; (Red algae) (Rehm, A.M. (973) 131)

Precursor enzyme
Superoxide dismutase; Manganese enzyme; Posttranslational processing; cDNA (Wispe, J.R. (994) 30)

Prednisolone
Alkaline phosphatase; dibutyryl cyclic AMP; Enzyme induction; (Human fetal liver cell) (Sorimachi, K. (1010) 72)

Pregrowth hormone
Growth hormone; cDNA cloning; Nucleotide sequence; Gene expression; (Ovine pituitary) (Warwick, J.M. (1008) 247)

Prelysosome
Vacuole; ATPase, H^+-; Proton pump; Endocytosis; (*D. discoideum*) (Padh, H. (982) 271)

Prenyltransferase
Hexaprenyl-diphosphate synthase; Sulfhydryl reagent; Arginine specific reagent; Enzyme inactivation; Enzyme protection; (*M. luteus* B-P 26) (Yoshida, I. (995) 138)

Prephenate dehydratase
Anthranilate synthase; Regulation (Tianhui, X. (991) 6)

Pressure
Taka-amylase A; Thermal inactivation (Makimoto, S. (996) 233)

Pre-steady-state kinetics
NADH:Q oxidoreductase; NADPH oxidation; Electron transfer; (Bovine heart mitochondria) (Van Belzen, R. (974) 311)

Ligninase; Compound I; Compound II; Hydrogen peroxide; Veratryl alcohol; Potassium ferrocyanide; One electron oxidation (Harvey, P.J. (994) 59)

Presynaptic neurotoxin
Textilotoxin; Phospholipase; Protein; Secondary structure; Spectroscopy (Aird, S.D. (997) 219)

Presynaptic neurotoxin, two barrier model
α-Latrotoxin channel; Black lipid membrane (Robello, M. (978) 179)

Primary culture
Fetal lipogenesis; Hormonal effect; (Rat hepatocyte) (Roncero, C. (1012) 320)

Primary hepatocyte
Lipoprotein (a); Apolipoprotein a; Apolipoprotein B; (Baboon) (Rainwater, D.L. (1003) 30)

Primary photochemistry
Copper inhibition; Photosystem II reaction center; Chlorophyll fluorescence; Electron transport; (Pea chloroplasts) (Renganathan, M. (974) 247)

Primary structure
Band 3 protein; Amino acid sequence; (Human); (Mouse) (Yannoukakos, D. (998) 43)

Sea urchin; Exogastrula; Exogastrula inducing peptide; Gastrulation; (*A. crassispina*) (Suyemitsu, T. (999) 24)

Phospholipase A_2; Neurotoxin; Toxic site; Computer modeling; (*V. ammodytes ammodytes*); (Snake venom) (Križaj, I. (999) 198)

Chromosomal protein; Transcription; (Archaebacteria) (Chartier, F. (1008) 309)

Primer
Protein–DNA interaction; DNA polymerization; DNA polymerase; (Thermoacidophilic archaebacteria) (Bukhrashvili, I.S. (1008) 102)

Priming
Insulin release; Pancreatic islet; Calcium ion; (Rat) (Chalmers, J.A. (1011) 46)

Proalbumin Christchurch
Proalbumin processing; Liver microsome; α_1-Antitrypsin Pittsburgh; KEX2 proteinase; (Yeast); (Chicken) (Peach, R.J. (990) 276)

Proalbumin convertase
Proalbumin variant; Golgi vesicle (Brennan, S.O. (993) 48)

Proalbumin processing
Liver microsome; Proalbumin Christchurch; α_1-Antitrypsin Pittsburgh; KEX2 proteinase; (Yeast); (Chicken) (Peach, R.J. (990) 276)

Proalbumin variant
Proalbumin convertase; Golgi vesicle (Brennan, S.O. (993) 48)

Probucol
Butylated hydroxytoluene; Linoleic acid; Peroxidation; Cholesterol esterification; Cholesterol secretion (Stein, O. (1003) 115)

Procainamide
Cimetidine; Renal tubular transport; Drug interaction; (Rat kidney) (Okudaira, N.-I. (981) 1)

Prochlorophyte
Protein phosphorylation; Thylakoid; State transition; Membrane protein; (*P. hollandica*) (Van der Staay, G.W.M. (975) 317)

Chlorophyll *a*/*b* complex; Chlorophyll *b*; Circular dichroism; (*P. hollandica*) (Matthijs, H.C.P. (975) 185)

Procollagenase
Calmodulin; Recombinant interleukin 1α; W-7; Human cervix; (Fibroblast) (Ojima, Y. (1011) 61)

Procollagenase assay
Collagenase assay; Collagenase inhibitor; Metalloproteinase; Metalloproteinase inhibitor (Lefebvre, V. (992) 355)

Progesterone receptor
Endometrium; Myometrium; Antiprogestin ZK 98.299; Relative binding affinity; Binding characteristic; (Human) (Puri, C.P. (1011) 176)

Prokallikrein activation
Tissue kallikrein; Thiol proteinase; (Rat kidney) (Nishii, M. (990) 138)

Prolactin
Triiodothyronine; Pituitary; Response element; Gene expression; Thyrotrophin (Ahlquist, J.A.O. (1008) 251)

Microsomal membrane; Hormone receptor; Somatotropin; Growth hormone; Cross-linking; (Rat hepatocyte) (Robetto, E.J. (1013) 223)

Nb_2 node lymphoma cell; Amiloride; Protein synthesis; RNA synthesis; DNA synthesis (Rillema, J.A. (1014) 78)

Prolactin-like cDNA
cDNA; Molecular cloning; Nucleotide sequence; (Bovine placenta) (Tanaka, M. (1008) 193)

Proliferation
Phosphatidylcholine; Fatty acid composition; Lysophospholipid acyltransferase; Phospholipid metabolism; Isoproterenol; (Rat submandibular gland) (Yashiro, K. (1005) 56)

Proliferator
1-Acylglycerophosphocholine acyltransferase; Peroxisomal β-oxidation; (Rat liver) (Kawashima, Y. (1005) 123)

Proliferin
Mitogen regulated protein; Growth hormone; Mouse prolactin; Gene expression; Promoter sequence (Connor, A.M. (1009) 75)

Proline
Glomerular epithelial cell; Glomerular mesangial cell; Collagen; Glomerular sclerosis; Hydroxyproline; (Human glomerulus) (Ardaillou, N. (991) 445)

D-Proline
D-Imino acid uptake; Sodium ion dependence; Electrogenic reaction; Hydroxy-D-proline; Luminal membrane vesicle; Proximal tubule; (Rabbit kidney) (Røigaard-Petersen, H. (984) 231)

Proline transport
Brush-border membrane; Intestinal transport; Sodium ion cotransport; Alanine transport; (*A. anguilla*) (Vilella, S. (984) 188)

Promoter
LDL; Lipoprotein receptor; Apolipoprotein E receptor; LRP promoter (Kütt, H. (1009) 229)

Promoter mutation
DNA amplification; Fetal globin gene; Transient expression; DNA sequencing; (K562 cell); (Human cell line) (Lanclos, K.D. (1008) 109)

Promoter sequence
Mitogen regulated protein; Proliferin; Growth hormone; Mouse prolactin; Gene expression (Connor, A.M. (1009) 75)

Promyelocyte
Inhibitin; Bumetanide; Ouabain; Sodium efflux; (Human erythrocyte) (Morgan, K. (979) 53)

Propanolol
Calcium activated potassium ion channel; Potassium ion channel; Patch clamp; Flux measurement; (Human erythrocyte) (Schwarz, W. (978) 32)

Propionic acid-diphenylhexatriene
Diphenylhexatriene; Fluorescence probe; Membrane probe; Fatty acid; Fatty acid binding protein; Albumin (Trotter, P.J. (982) 131)

Propionyl-CoA thioesterase
Fatty acid metabolism; Acyl-CoA hydrolase; Mitochondrion; (Rat brown adipose) (Alexson, S.E.H. (1005) 13)

Prostacyclin
Prostaglandin; Fluorescent probe; Dichloroaminophenol iloprost (Tsai, A.-l. (993) 74)

Thromboxane; Prostaglandin; Smoking; Eicosanoid excretion; (Human urine) (Barrow, S.E. (993) 121)

Arachidonic acid; Ionophore A23187; (Rat alveolar epithelial cell); (Rat fibroblast) (Olson, D.M. (1003) 327)

Selenium; PAF; Cyclooxygenase; Glutathione peroxidase; (Human endothelial cells) (Hampel, G. (1006) 151)

Prostaglandin endoperoxide H_2; Thromboxane; Coronary artery; Platelet; Prostacyclin synthase (Mayeux, P.R. (1011) 18)

Prostaglandin receptor; Thromboxane; Vascular smooth muscle; (Rat) (Hanasaki, K. (1013) 28)

Prostacyclin synthase
Prostaglandin endoperoxide H_2; Prostacyclin; Thromboxane; Coronary artery; Platelet (Mayeux, P.R. (1011) 18)

Prostaglandin
Prostacyclin; Fluorescent probe; Dichloroaminophenol iloprost (Tsai, A.-l. (993) 74)

Thromboxane; Prostacyclin; Smoking; Eicosanoid excretion; (Human urine) (Barrow, S.E. (993) 121)

Prostanoid; Thromboxane; Glutathione; Decidua; (Human) (Asbóth, G. (1002) 101)

Lipoxygenase; Cyclooxygenase; Leukotriene (Holtzman, M.J. (1003) 204)

Arachidonic acid metabolism; Shear stress; (Human endothelial cell) (Nollert, M.U. (1005) 72)

Prostaglandin binding
Catecholamine release; Chromaffin cell; (Borine adrenal) (Karaplis, A.C. (1010) 369)

Prostaglandin B_1 oligomer
Phospholipase A_2; Arachidonic acid; (Human neutrophil); (Human endothelial cell) (Rosenthal, M.D. (1006) 278)

Prostaglandin B_1 polymer (PGBx)
Phospholipase A_2 inhibition (Franson, R.C. (1006) 272)

Prostaglandin D_2
Thapsigargin; Histamine release; Arachidonic acid metabolism; (Rat peritoneal mast cell) (Ohuchi, K. (1003) 9)

cyclic AMP formation; Bovine adrenal medulla; (Bovine fibroblast) (Sugama, K. (1011) 75)

Prostaglandin D_2 receptor
Receptor regulation; (Mouse mastocytoma P-815 cell) (Yoshimura, S. (981) 69)

Prostaglandin E_2
(Lung lavage fluid); (Ductus arteriosus) (Strasser, T. (1003) 63)

Bradykinin antagonist; Prostaglandin synthesis; Calcium; Cytosolic free calcium; Renin synthesis; (Rabbit vascular smooth muscle cell) (Dussaule, J.-C. (1005) 34)

Okadaic acid; Dinophysistoxin-1; Tumor promoter; (Rat peritoneal macrophage) (Ohuchi, K. (1013) 86)

Prostaglandin E_2 catabolism
Hepatocyte; (Rat) (Brass, E.P. (1010) 233)

Prostaglandin-E_2 9-ketoreductase
Enzyme purification; Affinity purified antibody; Radioimmunoassay; (Swine kidney) (Krüger, S. (1001) 9)

Prostaglandin endoperoxide H_2
Prostacyclin; Thromboxane; Coronary artery; Platelet; Prostacyclin synthase (Mayeux, P.R. (1011) 18)

Prostaglandin E_2 synthesis
Cadmium; Cyclooxygenase; (Mouse osteoblast-like cells) (Suzuki, Y. (1012) 135)

Prostaglandin hydroxylase
19-Hydroxyprostaglandin $F_{2\alpha}$; Cytochrome *P*-450; Seminal fluid; Mass spectrometry; (Human) (Oliw, E.H. (1001) 107)

Prostaglandin I_3
Prostaglandin metabolism; Dietary fat; (Marmoset monkey) (Abeywardena, M.Y. (1003) 161)

Prostaglandin metabolism
Prostaglandin I_3; Dietary fat; (Marmoset monkey) (Abeywardena, M.Y. (1003) 161)

Prostaglandin receptor
Prostacyclin; Thromboxane; Vascular smooth muscle; (Rat) (Hanasaki, K. (1013) 28)

Prostaglandin synthesis
Bradykinin antagonist; Prostaglandin E_2; Calcium; Cytosolic free calcium; Renin synthesis; (Rabbit vascular smooth muscle cell) (Dussaule, J.-C. (1005) 34)

Prostanoid
Prostaglandin; Thromboxane; Glutathione; Decidua; (Human) (Asbóth, G. (1002) 101)

Prostasome
Phospholipid; Cholesterol; Fatty acid; ESR; Spin label; (Human semen) (Arvidson, G. (984) 167)

Fatty acid metabolism; Chiral phase HPLC; GC-MS; Lipoxygenase; (Male fertility); (Human) (Oliw, E.H. (1002) 283)

Prosthetic group
Ligand binding; Catalase; (Spinach) (Hirasawa, M. (994) 229)

Protamine
Chromatin structure; Dansyl modification; (Boar sperm nuclei) (Akama, K. (1008) 198)

Protamine gene
Chromatin structure; (Trout testis) (Nickel, B.E. (1007) 23)

Protein 4.1
Spectrin; Actin; Hemin; Fluorescence; Circular dichroism (Solar, I. (983) 199)

Casein micelle structure (Dalgleish, D.G. (991) 383)

Textilotoxin; Presynaptic neurotoxin; Phospholipase; Secondary structure; Spectroscopy (Aird, S.D. (997) 219)

Platelet protein; Platelet activation; Palmitoylation; Fatty acylation (Huang, E.M. (1011) 134)

Protein adsorption
Supported bilayer; Biosensor; Langmuir-Blodgett film; Lipid bilayer; Microelectrophoresis (Stelzle, M. (981) 135)

Protein aggregation
Bacteriorhodopsin; Freeze-fracture; Lateral phase separation; NMR, ^{31}P-; Dimyristoylphosphatidylcholine; Electron microscopy; (*H. halobium*) (Sternberg, B. (980) 117)

Melittin; Protein–lipid interaction; Boundary lipid; DSC (Bradrick, T.D. (982) 94)

Protein structure; Protein folding; Isoelectric focusing (Van den Oetelaar, P.J.M. (995) 82)

α-Crystallin; Protein structure; Protein folding; Isoelectric focusing; (Calf lens) (Van den Oetelaar, P.J.M. (995) 91)

Proteinase
Calcium activated neutral proteinase; Localization; Crosslinking; Erythrocyte membrane (Sakai, K. (985) 51)

Cell surface; (Macrophage) (Dean, R.T. (992) 174)

Macropain; Multicatalytic proteinase; Latent form; (Human erythrocyte) (McGuire, M.J. (995) 181)

Elastase; Kinetics; Temperature (Fitzpatrick, P.F. (995) 201)

Mechanism based inhibition; Lossen reaction; Diacylhydroxylamine (Demuth, H.-U. (996) 19)

Calpain; Calpastatin; Calcium ion dependence; (Chicken muscle) (Wolfe, F.H. (998) 236)

Vitamin D differentiation; Vitamin D receptor; (Leukemia cell line); (Human) (Inaba, M. (1010) 20)

Interferon γ; Interleukin 1; Cartilage degradation; DNA synthesis; (Human chrondrocyte) (Andrews, H.J. (1012) 128)

Proteinase activity
Cell cycle; Cell synchronization; Thymidine block; (Human cell culture); (Hela cell) (Kozaki, Y. (1014) 120)

Proteinase-α_1-macroglobulin complex
High molecular weight cysteine proteinase; ATP activated proteolysis; Multicatalytic proteinase; Reticulocyte; (Rabbit) (Kuehn, L. (991) 263)

Proteinase inhibition
Growth related proteolysis; Cell proliferation; (Human fibroblast) (Scott, G.K. (1010) 160)

Proteinase inhibitor
Proteoglycan synthesis; Articular cartilage; Hyaluronate; (Bovine) (Bolis, S. (993) 157)

α_2-Antiplasmin; Serpin; Plasminogen; *cis*-Dichlorodiammineplatinum(II) (Geary, W.A. (994) 1)

Elastin; Elastase; α_2-Macroglobulin; (Human pancreas) (Laurent, P. (994) 285)

Elastase; Mucus; Leukocyte; (Human) (Boudier, C. (995) 36)

Inter-α-trypsin inhibitor; Pancreatic elastase; PMN-granulocytic elastase (Rasp, G. (999) 335)

α_1-Proteinase inhibitor
Concanavalin A-Sepharose; Natural killer cell activity; (Human) (Lejeune, P.-J. (990) 122)

Protein binding
Anionic polypeptide fraction; Cholesterol; (Rat liver) (Martigne, M. (979) 341)

Bilirubin; Albumin; Jaundice; Anion transport; Hepato-renal syndrome; (Rat) (Sugi, K. (987) 217)

Retinoid; Medium composition; Sertoli cell; (Rat) (Galdieri, M. (1011) 168)

Inhibitor 1; Protein phosphatase 1 (Ingebritsen, V.M. (1012) 1)

Protein biosynthesis
Cartilage; Epiphyseal plate; Mechanical force; Glycosaminoglycan biosynthesis (Gray, M.L. (991) 415)

Protein blotting
Bacteriorhodopsin; Proteolysis; Microsequencing; Secondary structure model (Fimmel, S. (978) 231)

Protein bound sialic acid
Ganglioside; Sialyllactotetraosylceramide; Dendritic arborization; Synaptogenesis; (Human) (Svennerholm, L. (1005) 109)

Protein, C-
Hydrostatic pressure effect; Thick filament; myosin (Tumminia, S.J. (999) 300)

Protein C, activated
Factor VIII; Binding site; Fluorescence energy transfer (Fay, P.J. (994) 142)

Protein–carbohydrate interaction
Hemin; Erythrocyte membrane; ESR; Sialic acid motion; Membrane protein skeletal network (Wyse, J.W. (979) 121)

Protein catabolism
Protein phosphorylation; Phospho*enol*pyruvate carboxykinase; (Yeast) (Burlini, N. (1014) 153)

Protein characterization
Phospholipase A_2; Two dimensional gel electrophoresis; (Rat lung) (Lindahl, M. (1005) 282)

Chloroplast; Cyanobacterium; DNA-binding protein; (*Synechococcus*); (*A. quadruplicatum*) (Crevel, G. (1007) 36)

Histone $H1^0$; Protein evolution; Differentiation; (Maize root) (Srebreva, L. (1008) 346)

Protein charge
Protein valency; Polyacrylamide gel electrophoresis; Donnan potential (Öjteg, G. (991) 317)

Protein conformation
ATPase, H^+-; Lipid–protein interaction; Magnesium ion; Lipid fluidity (Zhang, X.F. (976) 53)

Lipid peroxidation; Fluorometry; *N*-(1-Pyrene)maleimide; Brush-border membrane; (Porcine small intestine) (Ohyashiki, T. (981) 235)

Macroglobulin, α_2M; Protein dissociation; Electron microscopy (Pochon, F. (996) 132)

Raman spectroscopy; Infrared; Phospholipase A_2 (Arêas, E.P.G. (997) 15)

α-Fetoprotein; Fatty acid; Estrogen binding; Immunodetection (Vallette, G. (997) 302)

β-Lactoglobulin; Heat denaturation; Monoclonal antibody (Kaminogawa, S. (998) 50)

Catalytic selectivity; Alcohol dehydrogenase; Water activity; (Yeast) (Xu, Z.-F. (998) 251)

Melittin; Ascorbate; Fluorescence quenching (Meucci, E. (999) 58)

Protein crystallization
VDAC protein; Mitochondrial membrane; Mitochondrial porin; Membrane fusion; Membrane channel protein (Mannella, C.A. (981) 15)

Protein degradation
Erythrocyte; Phenylhydrazine; Spectrin; Proteolysis; (Human) (Arduini, A. (979) 1)

Plasmin; Thrombin; Antithrombin III; (Mouse hepatocyte) (Spolarics, Z. (1012) 231)

Non histone protein; Nuclear translocation; Epidermal growth factor; DNA synthesis; (Monkey kidney cell) (Polet, H. (1013) 279)

Protein dephosphorylation
Protein synthesis; Growth factor; Eukaryotic initiation factor; (Ehrlich ascites tumor cell) (Montine, K.S. (1014) 282)

Protein dissociation
Macroglobulin, α_2M; Protein conformation; Electron microscopy (Pochon, F. (996) 132)

Protein–DNA interaction
DNA polymerization; DNA polymerase; Primer; (Thermoacidophilic archaebacteria) (Bukhrashvili, I.S. (1008) 102)

Protein dynamics
Hemoglobin; Spin transition; Intramolecular reaction; ESR; Temperature jump (Steinhoff, H.-J. (996) 49)

Lactate dehydrogenase; Viscosity; Enzyme kinetics (Demchenko, A.P. (998) 196)

Protein evolution
Histone $H1^0$; Differentiation; Protein characterization; (Maize root) (Srebreva, L. (1008) 346)

Protein export
Intracytoplasmic membrane; Lipopolysaccharide; Membrane biogenesis; *secA* gene; (*E. coli*) (De Cock, H. (985) 313)

Protein folding
Subtilisin; SDS-polyacrylamide gel electrophoresis; Autolysis (Owers Narhi, L. (990) 144)

Protein structure; Protein aggregation; Isoelectric focusing (Van den Oetelaar, P.J.M. (995) 82)

α-Crystallin; Protein structure; Protein aggregation; Isoelectric focusing; (Calf lens) (Van den Oetelaar, P.J.M. (995) 91)

Protein structure prediction; Retrovirus glycoprotein (Busetta, B. (998) 301)

Protein fragmentation
Tocopherol depletion; Lipid peroxidation; Radical stress; Mitochondrial membrane; (Rat) (Thomas, S.M. (1002) 189)

Protein glycosylation
Serum albumin; Lectin (Aring, J. (1010) 140)

Protein homology
Proton/D-glucose cotransporter; Sodium ion/D-glucose cotransporter; Monoclonal antibody; Western blot analysis; (*Z. mays*); (Pig kidney) (Rausch, T. (985) 133)

Protein ICP8
DNA binding protein; Herpes simplex virus; ssDNA; ICP8 (Leinbach, S.S. (1008) 281)

Protein identification
Cosedimentation; *N*-Formyl peptide; (Human); (Neutrophil) (Allen, R.A. (991) 123)

Protein inhibition
Phospholipase A_2; Lipid/water interface; Liposome; Micelle; Protein stimulation; (Pancreas); (Bee venom) (Conricode, K.M. (1003) 36)

Protein ionization
Electrostatic interaction; Lysozyme; Theoretical model (Spassov, V.Z. (999) 1)

Protein, 33 kDa
Oxygen evolution; Photosystem II; Photosynthesis; (Spinach) (Eaton-Rye, J.J. (977) 219)

Protein, 42 kDa
Sucrose carrier; Sucrose transport; Plant plasmalemma; Plant plasma membrane; Differential affinity labeling; (Sugar beet) (Gallet, O. (978) 56)

Sucrose carrier; Sucrose transport; Plant plasmalemma; Plant plasma membrane; Polyclonal antibody; (Sugar beet) (Lemoine, R. (978) 65)

Protein, 60 kDa
Tubulin, T-; Nifedipine; Antibody; Calcium ion channel; (Heart cell beating) (Chatterjee, D. (984) 104)

Protein, 165 kDa
Insulin; Phosphotyrosine; Kinase; Insulin receptor; Phosphorylation; (Rat) (Del Vecchio, R.L. (986) 41)

Protein kinase
LHC II; Fluorescence; Chloroplast; Phosphorylation; Photosystem II; (Spinach leaf) (Islam, K. (974) 261)

Phosphorylation; Nucleus; Casein kinase; NIII (Friedrich, T.D. (992) 41)

Fibrin; Fibrinogen; Protein phosphorylation (Šonka, J. (997) 268)

Phosphatidylethanolamine *N*-methyltransferase; Protein phosphorylation; (Rat liver) (Ridgway, N.D. (1004) 261)

cyclic AMP; Cilia; (*Paramecium*) (Mason, P.A. (1010) 108)

cyclic AMP; Cilia; (*Paramecium*) (Mason, P.A. (1010) 116)

AMP activated protein kinase; Substrate specificity; Glycogen synthase; Phosphorylase kinase; Phosphorylation site; Consensus sequence (Carling, D. (1012) 81)

Neurofilament; Phosphorylation; Cam kinase II; Protein kinase, cyclic AMP dependent; (Spinal cord) (Caputo, C.B. (1012) 299)

Protein kinase C
Adrenal medulla; Exocytosis; Stimulus secretion; Chromaffin granule; Protein phosphorylation (Brocklehurst, K.W. (979) 157)

Phorbol ester; Circular dichroism (Frézard, F. (979) 316)

Membrane splitting; Red blood cell; Tumor promoter; Diacylglycerol; Phorbol ester; 12-*O*-Tetradecanoylphorbol 13-acetate (Fisher, K.A. (982) 237)

Subcellular distribution; Sickle cell; Erythrocyte (Apovo, M. (984) 26)

Human leukemia; RNA polymerase (Chuang, L.F. (992) 87)

Surfactant; Ethoxylated alcohol (Abidi, T.F. (992) 362)

Sphingosine; Sphingolipid; Signal transduction; Phorbol ester (Merrill, Jr., A.H. (1010) 131)

Signal transduction; Platelet; Sphingosine; (Human) (Krishnamurthi, S. (1010) 258)

Cadmium; T cell activation; Interleukin 2; Phosphatidylinositol hydrolysis; (Human) (Cifone, M.G. (1011) 25)

Arachidonic acid metabolism; Calcium ion, extracellular; Calcium ion, intracellular; Dioctanoylglycerol; (Human platelet) (Ozaki, Y. (1012) 87)

Macrophage; cyclic AMP; Cell spreading; Electron microscopy; (Mouse cell line) (Petty, H.R. (1012) 284)

Phosphate transport; Brush border membrane; Renal tubule; Phorbol myristate acetate (Boneh, A. (1012) 308)

Enzyme expression; Phorbol ester; Cell differentiation (Hooper, W.C. (1013) 47)

Sodium ion–proton exchanger; ATP, extracellular; Calcium ion; (Bovine aortic endothelial cell) (Kitazono, T. (1013) 152)

cyclic GMP; Nitroprusside; Fluoroaluminate; Calcium ion flux; (Human platelet) (Deana, R. (1014) 203)

Heart muscle; Patch clamp; Sodium channel; Angiotensin II; Phosphorylation; (Guinea pig) (Nilius, B. (1014) 259)

Protein p68; Growth factor; Macrophage colony stimulating factor; Platelet derived growth factor; Insulin; (Placental syncytiotrophoblast) (Kenton, P. (1014) 271)

Protein kinase, cyclic AMP dependent
cyclic AMP dependence; Distribution; Lens; (Bovine eye) (Hur, K.C. (1010) 56)

Neurofilament; Phosphorylation; Protein kinase; Cam kinase II; (Spinal cord) (Caputo, C.B. (1012) 299)

Protein–lipid interaction
Melittin; Protein aggregation; Boundary lipid; DSC (Bradrick, T.D. (982) 94)

Dipalmitoylphosphatidylcholine; Liposome; Ascorbate oxidase; Electron microscopy (Mossa, G. (986) 310)

Protein M
Newcastle disease virus; Sialidase; Hemagglutinin-neuraminidase (García-Sastre, A. (999) 171)

Protein–membrane interaction
Melittin; Phospholipid bilayer; Kinetics; Thermodynamics (Schwarz, G. (979) 82)

Superoxide dismutase; Liposome; Electron spin resonance; (Human erythrocyte) (Marcocci, L. (979) 99)

Protein methylation
Yeast; Ribosomal protein; Lysine *N*-methyltransferase (Lobet, Y. (997) 224)

Protein micelle
Transferrin; Phosphatidylethanolamine; Covalent coupling; Liposome (Afzelius, P. (979) 231)

Protein modification
Cooperativity; Spin label; Slow transition; ESR (Graupe, K. (999) 176)

Protein *N*-acetylation
Cytochrome b_5; Microsomal membrane protein; Orientation of membrane protein (Ozols, J. (997) 121)

Protein NMR
Plasminogen; Kringle 4 structure; Antifibrinolytic; Photo-CIDNP experiment; NMR, protein (De Marco, A. (994) 121)

Protein p68
Growth factor; Protein kinase C; Macrophage colony stimulating factor; Platelet derived growth factor; Insulin; (Placental syncytiotrophoblast) (Kenton, P. (1014) 271)

Protein phosphatase
cDNA cloning; Peptide mapping; Amino acid sequence; Nucleic acid sequence; (Rabbit liver) (Cohen, P.T.W. (1008) 125)

Calmodulin; cDNA cloning; Amino acid sequence; Nucleotide sequence; (Rabbit brain) (Da Cruz e Silva, E.F. (1009) 293)

Inhibitor protein; Amino acid sequence; Glucagon; Immunoblotting; Hepatic metabolism; (Rabbit); (Rat) (MacDougall, L.K. (1010) 218)

Protein phosphatase 1
Inhibitor 1; Protein binding (Ingebritsen, V.M. (1012) 1)

Protein phosphatase-2A; Polycation; Heparin-Sepharose; Thymocyte; (Rat) (Bakó, É. (1013) 300)

Protein phosphatase-2A
Protein phosphatase-1; Polycation; Heparin-Sepharose; Thymocyte; (Rat) (Bakó, É. (1013) 300)

Protein phosphorescence
Glutathione transferase; Placenta; (Human) (Arduini, A. (999) 203)

Protein phosphorylation
Bicarbonate effect; Photoinhibition; Light harvesting complex; Thylakoid membrane; (Spinach) (Sundby, C. (975) 277)

Thylakoid; Prochlorophyte; State transition; Membrane protein; (*P. hollandica*) (Van der Staay, G.W.M. (975) 317)

Photosynthesis; Thylakoid membrane; Phycobilisome; Photosystem stoichiometry; (Cyanobacterium) (Sanders, C.E. (976) 168)

Adrenal medulla; Exocytosis; Stimulus secretion; Chromaffin granule; Protein kinase C (Brocklehurst, K.W. (979) 157)

ATPase; Sarcoplasmic reticulum; Phospholamban; Rotational diffusion; Phosphorescence polarization (Fowler, C. (980) 348)

Glycoprotein; GP IIb-IIIa; Platelet activation; cyclic AMP; Inositol phosphate; Fibrinogen (Sinigaglia, F. (984) 225)

Gap junction; Lens plasma membrane; cyclic AMP; (Sheep lens) (Voorter, C.E.M. (986) 8)

Troponin; Tropomyosin; Calcium ion regulation; Cardiac muscle (Raggi, A. (997) 135)

Fibrin; Fibrinogen; Protein kinase (Šonka, J. (997) 268)

Phospholamban; Circular dichroism (Simmerman, H.K.B. (997) 322)

Phosphatidylethanolamine *N*-methyltransferase; Protein kinase; (Rat liver) (Ridgway, N.D. (1004) 261)

Protein synthesis; Initiation factor 2; Guanine nucleotide exchange; (*Artemia*) (Mateu, M.G. (1007) 55)

Initiation factor 2; (Rabbit reticulocyte lysate) (Price, N.T. (1008) 177)

Phorbol ester; Zymosan; Lipopolysaccharide; Lipocortin; (Mouse macrophage) (Wijkander, J. (1010) 78)

Casein kinase-2; Initiation factor; Protein synthesis (Clark, S.J. (1010) 377)

Glycogen synthase; Glycogen synthase kinase 3; Polycation; Inhibitor; (Rabbit skeletal muscle) (Hegazy, M.G. (1011) 198)

Lactogen; Human growth hormone; cyclic AMP; Nb_2 lymphoma (Kornberg, L.J. (1011) 205)

Phospho*enol*pyruvate carboxykinase; Protein catabolism; (Yeast) (Burlini, N. (1014) 153)

mRNA binding protein; Maternal mRNA; Oocyte; (*Xenopus laevis*) (Cummings, A. (1014) 319)

Protein, PR
Cereal; α-Amylase inhibitor; Endochitinase; Crop protection (Ary, M.B. (999) 260)

Protein primary structure
Amino acid sequence; Ribosomal protein S4; S4, protein; (Rat) (Devi, K.R.G. (1008) 258)

Protein processing
Egg-specific protein; In vitro translation; (*B. mori* egg) (Kobayashi, M. (1009) 129)

Protein–protein interaction
Glutamate synthase; Ferredoxin (Hirasawa, M. (977) 150)

Plasminogen activator inhibitor 1; Fibrinolysis; Vitronectin; Fibrosarcoma; (Fibrosarcoma cell-line HT1080) (Lindahl, T. (994) 253)

Myosin; Myosin light chain; Structure prediction (Béchet, J.-J. (996) 199)

Protein purification
Electron transfer; Flavoprotein; Mitochondrion; Enoyl-CoA reduction; (*A. suum*) (Komuniecki, R. (975) 127)

Vesicle; Micelle; Octyl glucoside; Phosphatidylcholine; Protein reconstitution; Acetylcholine receptor; Nicotinic acetylcholine receptor (Schürholz, T. (986) 225)

Intrinsic factor; Intrinsic factor receptor; Cobalamin; (Human); (Pig ileum) (Guéant, J.L. (992) 281)

Neutrophil; Tyrosine kinase; Inhibitor (Berkow, R.L. (997) 292)

Cobalamin binding protein; (Chicken egg yolk) (Zaman, K. (998) 102)

Adherence inhibiting factor; Neutrophil adherence; Platelet granule; (Guinea pig) (Iwabuchi, K. (999) 183)

D-Aspartic acid; (Bovine lens) (Fujii, N. (999) 239)

Pneumolysin; recombinant DNA; Gene expression; (*S. pneumoniae*) (Mitchell, T.J. (1007) 67)

Protein reconstitution
Vesicle; Micelle; Octyl glucoside; Phosphatidylcholine; Protein purification; Acetylcholine receptor; Nicotinic acetylcholine receptor (Schürholz, T. (986) 225)

Protein refolding
Histone subtype; HPLC; DNA fragment; (Rat liver) (Tchouatcha-Tchouassom, J.C. (1009) 121)

Protein secretion
Protein synthesis; Brefeldin A; (Oviduct cell); (Egg white); (*C. coturnix japonica*) (Kato, S. (991) 36)

Gene expression; Starch hydrolysis; Glucoamylase; Glycoprotein; (Budding yeast) (Vanoni, M. (1008) 168)

Von Willebrand factor; Endothelial cell; (Human umbilical cord vein) (Van Buul-Wortelboer, M.F. (1011) 129)

Protein sequence
Membrane protein; Cytochrome, *b*-type; Secondary structure prediction; Histidine ligand; Heme (Degli Esposti, M. (977) 249)

Protein side chain contact
Amide–aromatic interaction; Sulfur–aromatic interaction; Molecular orbital calculation; π Hydrogen bond (Cheney, B.V. (996) 116)

Protein stimulation
Phospholipase A_2; Protein inhibition; Lipid/water interface; Liposome; Micelle; (Pancreas); (Bee venom) (Conricode, K.M. (1003) 36)

Protein structure
Electron transfer protein; Bacterial protein; Redox protein (Meyer, T.E. (975) 1)

Protein folding; Protein aggregation; Isoelectric focusing (Van den Oetelaar, P.J.M. (995) 82)

α-Crystallin; Protein folding; Protein aggregation; Isoelectric focusing; (Calf lens) (Van den Oetelaar, P.J.M. (995) 91)

Ferredoxin; Iron-sulfur cluster; ESR; CD; Urea denaturation; (Spinach) (Ohmori, D. (996) 166)

Ferredoxin; Iron-sulfur cluster; CD; Urea denaturation; (Spinach) (Hasumi, H. (996) 173)

Hemoglobin; XANES (Congiu Castellano, A. (996) 240)

Legumin; Limited proteolysis (Plumb, G.W. (999) 281)

LDL; Apolipoprotein B-100; Infrared; (Human) (Goormaghtigh, E. (1006) 147)

Protein structure prediction
Protein folding; Retrovirus glycoprotein (Busetta, B. (998) 301)

Protein synthesis
Photodynamic effect; Hematoporphyrin derivative; Hyperthermia; Repair; L929 cells; 2-Aminoisobutyric acid transport (Boegheim, J.P.J. (979) 215)

Electromagnetic field; Metabolic effect; Membrane transport; (Rat skin) (De Loecker, W. (982) 9)

Protein secretion; Brefeldin A; (Oviduct cell); (Egg white); (*C. coturnix japonica*) (Kato, S. (991) 36)

Initiation factor 2; Guanine nucleotide exchange; Protein phosphorylation; (*Artemia*) (Mateu, M.G. (1007) 55)

Cell-free translation; (*S. cerevisiae*) (Mandel, T. (1007) 80)

Synergimycin; Antibiotic; Ribosome; Peptidyltransferase inhibitor (Nyssen, E. (1009) 39)

In vitro translation; mRNA binding; Inhibition; (Mouse erythroleukemia cell) (Bader, M. (1009) 61)

Ionophore A23187; Angiotensin converting enzyme; Calcium ion dependence; (Bovine endothelial cell) (Dasarathy, Y. (1010) 16)

Casein kinase-2; Initiation factor; Protein phosphorylation (Clark, S.J. (1010) 377)

Nb_2 node lymphoma cell; Prolactin; Amiloride; RNA synthesis; DNA synthesis (Rillema, J.A. (1014) 78)

Protein dephosphorylation; Growth factor; Eukaryotic initiation factor; (Ehrlich ascites tumor cell) (Montine, K.S. (1014) 282)

Protein translocation
Microbody; Peroxisome; Glyoxysome; Glycosome; Topogenesis; Biogenesis (Borst, P. (1008) 1)

Protein transport
Glycerol-3-phosphate dehydrogenase; In vitro translation; Mitochondrial processing; Thyroid hormone (Clay, V.J. (975) 112)

Asialoorosomucoid; Cyanogen bromide treatment; (Rat hepatocyte) (Chang, T.-m. (1010) 166)

Protein tyrosine kinase
Insulin receptor (Srivastava, A.K. (996) 13)

Protein valency
Protein charge; Polyacrylamide gel electrophoresis; Donnan potential (Öjteg, G. (991) 317)

Proteoglycan
Intervertebral disc; Neutral proteinase; Proteoglycan degradation; (Dog) (Cole, T.-C. (990) 254)

Vitamin A deficiency; Cornea; Keratin sulfate; Chondroitin (Twining, S.S. (992) 181)

Link protein; Viscosity (Mow, V.C. (992) 201)

Heparan sulfate; Heparin; Phospholipase C; Phosphatidylinositol specific phospholipase C; (Rat heart cell) (Chajek-Shaul, T. (1014) 178)

Proteoglycan degradation
Intervertebral disc; Neutral proteinase; Proteoglycan; (Dog) (Cole, T.-C. (990) 254)

Proteoglycan metabolism
Interleukin 1; Proteoglycan size distribution; Sedimentation field flow fractionation (Arner, E.C. (993) 100)

Proteoglycan size distribution
Interleukin 1; Sedimentation field flow fractionation; Proteoglycan metabolism (Arner, E.C. (993) 100)

Proteoglycan synthesis
Cartilage; Cell–matrix interaction (Urban, J.P.G. (992) 59)

Proteinase inhibitor; Articular cartilage; Hyaluronate; (Bovine) (Bolis, S. (993) 157)

Energy metabolism; Forskolin; cyclic AMP synthesis (Hu, L.-M. (1013) 294)

Proteolipid composition
Respiratory mutant; ATPase, subunit 8; (*S. cerevisiae* mitochondria) (Manon, S. (985) 127)

Proteoliposome
Cytochrome oxidase; Peroxy complex; Proton pumping; Conformational transition; Spectroscopy (Vygodina, T. (973) 390)

ATP hydrolysis; ATP synthesis; Coupling factor; Membrane reconstitution; ATPase, F_0F_1-; (*R. rubrum*) (Slooten, L. (975) 148)

Photon correlation spectroscopy; Wheat germ agglutinin; Liposome size distribution (Hutchinson, F.J. (978) 17)

Glycine transporter; Sodium ion dependence; Chloride dependence; Glycoprotein; (Rat) (Lopez-Corcuera, B. (983) 247)

Wheat germ agglutinin; Adsorption; Liposome integrity; Glycophorin (Hutchinson, F.J. (987) 212)

Proteoliposome chromatophore fusion
Bacteriochlorophyll binding protein; Membrane protein; Amino acid sequence; Energy transfer (Tadros, M.H. (976) 161)

Proteolysis
Bacteriorhodopsin; Protein blotting; Microsequencing; Secondary structure model (Fimmel, S. (978) 231)

Erythrocyte; Phenylhydrazine; Spectrin; Protein degradation; (Human) (Arduini, A. (979) 1)

Aging; Erythrocyte membrane (Gaczyńska, M. (981) 173)

Cellulase; Cellobiohydrolase; Monoclonal antibody; Functional domain; (*T. reesei*) (Mischak, H. (990) 1)

Bean storage protein; Circular dichroism; Derivative spectroscopy; Fluorescence; Quenching; Surface hydrophobicity (Deshpande, S.S. (998) 179)

Proteolytic cleavage
Ferredoxin; (*C. pasteurianum*) (Skjeldal, L. (995) 59)

Proteolytic fragment
Erythrocyte; Band 3 protein; Anion transport; Amino acid sequence; (Mouse) (Raida, M. (980) 291)

Proteolytic product
Glycoprotein IIIa; Platelet membrane (Niewiarowski, S. (983) 91)

Prothrombin biosynthesis
Inhibition; Warfarin; (Rat) (Tollersrud, O.K. (1010) 35)

Prothrombin fragment 1
Calcium; Conformational change; (Human) (Lau, H.K.F. (996) 95)

Protochlorophyllide
5-Aminolevulinate dehydratase; Chlorophyll biosynthesis; C_5 pathway; 4,5-Dioxovalerate; (*Scenedesmus*) (Kotzabasis, K. (977) 309)

Proton
Divalent cation; Calcium ion, extracellular; Hemolytic agent; Membrane damage; Zinc ion, extracellular; Plasma membrane (Bashford, C.L. (983) 56)

Proton/amino acid symport
Amino acid transport; Kinetics; Energy coupling; Permease; (*P. cyclopium*) (Roos, W. (978) 119)

Protonated Schiff base
Opsin shift; Chromophore; Resonance Raman spectroscopy; Lipid–protein interaction; (Bacteriorhodopsin) (Pande, C. (973) 257)

Protonation
Bacterial photosynthesis; Reaction center; Charge recombination; pH dependence; (*Rps. viridis*) (Sebban, P. (974) 54)

Proton conductance
Uncoupling; Membrane potential; Fatty acid; Mitochondrion (Schönfeld, P. (977) 266)

Proton dependency
Nicotinate; Ferric leghemoglobin (Atanasov, B.P. (998) 80)

Proton diffusion
Proton translocation; Cytochrome bc_1 complex; Photosynthetic bacteria; (*Rb. capsulatus*) (Jones, M.R. (975) 34)

Proton efflux
Membrane potential; Electrogenic proton pump; Potassium ion/proton cotransport; Microelectrode measurement; (*D. discoideum*) (Van Duijn, B. (983) 186)

Electrogenic proton pump; Membrane potential; ATP; (*P. polycephalum*) (Kuroda, H. (987) 154)

Proton/electron ratio
Cytochrome *bf* complex; Proton translocation; Chloroplast; (Pea) (Hope, A.B. (975) 96)

Proton extrusion
pH, intracellular; Fluorescence ratio microscopy; (Mouse pancreatic β-cell) (Grapengiesser, E. (1014) 219)

Proton/D-glucose cotransporter
Sodium ion/D-glucose cotransporter; Monoclonal antibody; Protein homology; Western blot analysis; (*Z. mays*); (Pig kidney) (Rausch, T. (985) 133)

Proton gradient
Photophosphorylation; ATPase; Thylakoid membrane; Enzyme regulation; (Lettuce chloroplasts) (Bizouarn, T. (974) 104)

Chloroplast; ATPase, H^+-; Thiol modulation; Enzyme regulation; 9-Aminoacridine (Lohse, D. (976) 85)

ATP synthesis; Coupling factor; Membrane reconstitution; Luciferase; (*R. rubrum*) (Slooten, L. (976) 150)

Proton/hexose cotransport
Exchange diffusion; Photoautotrophic suspension cell; (*C. rubrum* L.) (Gogarten, J.P. (978) 43)

Protonophore
Antimalarial drug; Chloroquine; Alkylamine; (*E. coli*) (Nissani, E. (978) 293)

Lysine: N^6-hydroxylation; Vesicle (Goh, C.J. (990) 240)

Proton pump
Vacuole; ATPase, H^+-; Prelysosome; Endocytosis; (*D. discoideum*) (Padh, H. (982) 271)

pH, cytoplasmic; pH regulation; Intracellular buffering; Membrane permeability; (*D. discoideum*) (Inouye, K. (1012) 64)

Proton pumping
Catalytic unit; Oxidant-pulse experiment; Rate/pulse method; Cytochrome-*c* oxidase; Cytochrome-*c* reductase; Myxothiazol; Cyanide; (Rat liver mitochondria) (Moody, A.J. (973) 29)

Cytochrome oxidase; Peroxy complex; Proteoliposome; Conformational transition; Spectroscopy (Vygodina, T. (973) 390)

Reaction center; Cytochrome bc_1 complex; Cyclic electron transfer; Photosynthesis; Liposome reconstitution; (*Rb. sphaeroides*); (*Rb. capsulatus*) (Crielaard, W. (974) 211)

Proton relaxation
NMR, ^{31}P-; Nuclear Overhauser effect; Erythrocyte; (Human) (Monti, J.-P. (1010) 210)

Proton transfer
NADH : ubiquinone oxidoreductase; Dicyclohexylcarbodiimide; Membrane potential; Submitochondrial particle; (Bovine heart) (Vuokila, P.T. (974) 219)

Proton translocation
Proton diffusion; Cytochrome bc_1 complex; Photosynthetic bacteria; (*Rb. capsulatus*) (Jones, M.R. (975) 34)

Cytochrome *bf* complex; Proton/electron ratio; Chloroplast; (Pea) (Hope, A.B. (975) 96)

Proton transport
Cotransport; Galactoside dependence; Lactose carrier; *lac*Y; Transport energetics (King, S.C. (982) 253)

Gramicidin A; Open channel noise; Channel block; Sodium ion transport (Heinemann, S.H. (987) 8)

Proto-oncogene
Aging; Gastric mucosal regeneration; Tyrosine kinase (Majumdar, A.P.N. (992) 35)

Proto-oncogene expression
c-*erbA*; Cell proliferation; Glucocorticoid; (Human lymphoid cell) (Maroder, M. (1009) 188)

Protoplast
Mesophyll protoplast; Asymmetrical breakdown; Electropermeabilization; Electrofusion (Mehrle, W. (978) 267)

Protoporphyrin IX
Horseradish peroxidase; Fluorescence (Jullian, C. (997) 206)

Proximal tubule
Potassium ion channel; Apical membrane; Patch clamp; (Rabbit) (Merot, J. (978) 134)

Phosphate transport; Sodium ion cotransport; *N*-Acetylimidazole; (OK cell) (Wuarin, F. (981) 185)

D-Imino acid uptake; Sodium ion dependence; Electrogenic reaction; D-Proline; Hydroxy-D-proline; Luminal membrane vesicle; (Rabbit kidney) (Røigaard-Petersen, H. (984) 231)

Osmotic permeability; Reflection coefficient; Light scattering; Membrane vesicle; (Rabbit kidney) (Van der Goot, F.G. (986) 332)

Pseudogene
Actin, γ-; Repetitive element; (Mouse) (Yoda, K. (1009) 194)

Psoralen
Furocoumarin; Angelicin; Glutathione; Photooxidation; Melanin pigmentation; Ultraviolet irradiation; Oxygen radical (D'Ischia, M. (993) 143)

Pteridine antifolate
Drug delivery; Drug metabolism; Liposome leakage assay (Ng, K.-y. (981) 261)

Pullulanase
Amylase; (*B. circulans* F-2) (Sata, H. (991) 388)

Pulmonary surfactant
Neutrophil elastase; Adult respiratory distress syndrome (Pison, U. (992) 251)

Vasopressin; Type II pneumocyte; Phosphatidylcholine secretion (Brown, L.A.S. (1001) 76)

Tubular myelin; Alveolar surface tension; Alveolar stability; Lipoprotein; (Canine lung) (King, R.J. (1001) 294)

Surfactant associated protein; Phospholipid; Lipid–protein interaction; Surface tension (Chung, J. (1002) 348)

Phospholipid; Lamellar body; Respiratory distress; (Rabbit) (Casals, C. (1003) 201)

Surfactant associated protein; Amino acid sequence; (Bovine lung) (Yu, S.-H. (1005) 93)

Glycerophosphorylcholine; Phosphatidylcholine; Phospholipid synthesis; (Rat liver); (Rat lung) (Veldhuizen, R.A.W. (1005) 157)

Posttranslational processing; In vitro translation; (Human adenocarcinoma cell line) (O'Reilly, M.A. (1011) 140)

Epidermal growth factor; Lung development; Fetal lung; Fibroblast pneumocyte factor (Nielsen, H.C. (1012) 201)

Pulmonary surfactant synthesis
Phosphatidylcholine; Carbon tetrachloride; Alveolar type II cell; (Rat) (Ma, J.Y.C. (1003) 136)

Pulse radiolysis
Melanogenesis; Dihydroxyindole oxidation; Dihydroxyindole radical; Indolequinone (Lambert, C. (993) 12)

Heme protein; Hemoglobin α-chain; Myoglobin; Hydrated electron (Pin, S. (994) 47)

Horseradish peroxidase; Superoxide anion (Shimizu, N. (995) 133)

3,4-Dihydroxymandelic acid; Tyrosinase; Oxidative decarboxylation; 3,4-Mandeloquinone; Quinone methide (Bouheroum, M. (998) 57)

Pump and leak mechanism
Nitrate uptake; Solute accumulation control; Cyanate inhibition; (*C. caldarium*) (Fuggi, A. (974) 141)

Pump current
ATPase, Na^+/K^+-; Reconstituted lipid vesicle; Ion flux; Coupling ratio (Clarke, R.J. (981) 326)

Purification
Cytochrome $P\text{-}450_{SCC}$; Multiple molecular form; (Bovine corpus luteum); (Mitochondrion) (Sugano, S. (994) 235)

Lactoferrin; Colostrum; Milk; ssDNA; Amino acid sequence; (Porcine) (Hutchens, T.W. (999) 323)

Alkenylhydrolase; Alkenylglycerophosphocholine hydrolase; Alkenylglycerophosphoethanolamine hydrolase; (Rat liver); (Microsome) (Jurkowitz-Alexander, M. (1002) 203)

Lysosomal enzyme; Peritonitis; Sphingomyelinase (Quintern, L.E. (1003) 121)

Lipoprotein lipase; Triglyceride lipase; Immunochemistry; Lipoprotein metabolism; (Human liver) (Ikeda, Y. (1003) 254)

Purine
Phosphate assay; HPLC; Microsome; Membrane bound enzyme; Pyrimidine; ATPase (Missiaen, L. (990) 40)

Purine metabolism
Adenylosuccinase; Adenylosuccinate lyase; Succinylpurine; Mental retardation; Autism; (Human) (Barshop, B.A. (999) 19)

Lymphocyte proliferation; IMP dehydrogenase; Pyrimidine metabolism; CTP synthetase; (Human) (Marijnen, Y.M.T. (1012) 148)

Purine salvage
Adenine phosphoribosyltransferase; Human malaria parasite; (*P. falciparum*) (Queen, S.A. (996) 160)

Purple acidic form
Bacteriorhodopsin; Hill plot; Harned's rule; Chloride ion activity; Blue acidic form (Drachev, A.L. (976) 190)

Purple bacterium
Cytochrome bc_1 complex; Electron transport chain; Quinone binding; (*R. rubrum*) (Kriauciunas, A. (976) 70)

Putrescine
Polyamine; Sodium ion dependent transport; Polyamine transport; (Renal cell line) (De Smedt, H. (1012) 171)

Pyrazofurin
6-Azauridine; Drug resistance; Orotidine-5′-phosphate decarboxylase; Osteoblastic cell; Adenosine kinase deficient cell; (Mouse) (Beidler, D.R. (1014) 101)

Pyrene
Microenvironment; Bile salt; Phosphatidylcholine; Cholesterol; Thiacarbocyanine (Matsuzaki, K. (980) 371)

Pyrenecerebroside sulfate
Arylsulfatase A; Fluorescent sulfatide; (Human leukocyte) (Marchesini, S. (1002) 14)

Fluorescent sulfatide; Sulfatide uptake; Metachromatic leukodystrophy (Viani, P. (1002) 20)

***N*-(1-Pyrene)maleimide**
Lipid peroxidation; Protein conformation; Fluorometry; Brush-border membrane; (Porcine small intestine) (Ohyashiki, T. (981) 235)

Pyrenemethanol
Pyrenemethyl laurate; Lipase activity; Fluorometry (Nègre, A. (1006) 84)

Pyrenemethyl laurate
Pyrenemethanol; Lipase activity; Fluorometry (Nègre, A. (1006) 84)

Pyrenylalanine
Amphipathic antimicrobial peptide; Alpha-helical peptide; Fluorescent peptide; Tryptophan fluorescence; Peptide–lipid interaction; Peptide–peptide interaction (Lee, S. (984) 174)

Pyridoxal kinase
Metallothionein; Activation (Churchich, J.E. (996) 181)

Pyridoxalphosphate
Peptide sequence; Serine dehydratase; Threonine dehydratase; (Rat liver); (Yeast); (*E. coli*) (Ogawa, H. (996) 139)

Pyridoxalphosphate inhibition
Chloroplast ATPase, H^+-; Photophosphorylation; CF_1; ATPase, H^+-; Subunit labeling; ([^{3}H]PLP) (Bickel-Sandkötter, S. (974) 30)

Pyrimethamine
Dihydrofolate reductase; Molecular model; (*E. coli*) (Sansom, C.E. (995) 21)

Pyrimidine
Phosphate assay; HPLC; Microsome; Membrane bound enzyme; Purine; ATPase (Missiaen, L. (990) 40)

Pyrimidine metabolism
Lymphocyte proliferation; Purine metabolism; IMP dehydrogenase; CTP synthetase; (Human) (Marijnen, Y.M.T. (1012) 148)

Pyrimidine moiety
Thiamin biosynthesis; Histidine incorporation; (*S. cerevisiae*) (Tazuya, K. (990) 73)

Pyrimidine 5′-nucleotidase deficiency
Erythrocyte; Magnesium; Phosphoribosylpyrophosphate synthetase; Pyrimidine nucleotide (Lachant, N.A. (994) 81)

Pyrimidine nucleotide
Erythrocyte; Magnesium; Phosphoribosylpyrophosphate synthetase; Pyrimidine 5′-nucleotidase deficiency (Lachant, N.A. (994) 81)

Pyrolysis GC-MS
Adrenaline melanin; Dopamine melanin; Melanin-copper complex; Infrared ESR; Catecholamine (Stępień, K.B. (997) 49)

Pyrophosphate
Fructose 2,6-bisphosphate; Sucrose synthesis; Fluoride; Photosynthesis; (Spinach) (Quick, P. (973) 263)

Inorganic pyrophosphatase; Mitochondrial metabolism (Mansurova, S.E. (977) 237)

Pyruvate
Crabtree effect; Yeast; Pyruvate decarboxylase; Alcoholic fermentation; (*Saccharomyces*); (*Candida*) (Van Urk, H. (992) 78)

Pyruvate decarboxylase
Crabtree effect; Yeast; Pyruvate; Alcoholic fermentation; (*Saccharomyces*); (*Candida*) (Van Urk, H. (992) 78)

Pyruvate dehydrogenase
Pyruvate oxidation; (*D. discoideum*) (Butler, M.H. (991) 337)

Calcium ion; Cell permeabilization; (Rat heart mitochondria) (Rutter, G.A. (1014) 263)

Pyruvate kinase
Allosteric kinetics; pH effect; (*P. blakesleeanus*) (De Arriaga, D. (998) 221)

Pyruvate kinase deficiency
NMR, ^{31}P-; Magnesium ion, intracellular; Hexokinase deficiency; (Human red blood cell) (Ouwerkerk, R. (1010) 294)

Pyruvate oxidation
Pyruvate dehydrogenase; (*D. discoideum*) (Butler, M.H. (991) 337)

Pyruvoyltetrahydropterin synthase
Tetrahydrobiopterin; (*E. coli*) (Kerler, F. (990) 15)

Q

Q_A acceptor
Luminescence; S state; Photosystem II (Sundblad, L.-G. (973) 47)

Quantification analysis
β-Globin gene; 5′-Splice site sequence; Site-directed mutagenesis; (Rabbit) (Iida, Y. (1007) 270)

Quantum mechanics
Superexchange mechanism; Reaction center; Photosynthesis; Charge separation; Franck-Condon factor (Bixon, M. (977) 273)

Quantum requirement
Optical cross section; Poisson distribution; Trap; Reaction center; Single turnover flash; Energy transfer; Fluorescence induction; Antenna, light-harvesting; Pigment protein (Mauzerall, D. (974) 119)

Quantum yield
Chlorophyll; Fluorescence quenching; Non-photochemical quenching; Photosynthesis; (Barley) (Quick, W.P. (977) 287)

Carbon assimilation; Chlorophyll fluorescence; Electron transport; Fluorescence quenching; Photosystem II (Genty, B. (990) 87)

Quasi-elastic light scattering
Micelle–vesicle transition; Bile salt; Phosphatidylcholine; Drug entrapment; Transmission electron microscopy (Son, K. (981) 288)

Quaternary structure
ATP synthase structure; Electron microscopy; Symmetry; ATPase, F_1- (Tiedge, H. (977) 1)

ATPase, Na^+/K^+-; Dissociation-association equilibrium; Laser light scattering; (Canine kidney) (Hayashi, Y. (983) 217)

Quenching
Bean storage protein; Circular dichroism; Derivative spectroscopy; Fluorescence; Proteolysis; Surface hydrophobicity (Deshpande, S.S. (998) 179)

Quin2
Calcium ion transport, passive; Calcium ion entry blocker; Vanadate; (Erythrocyte) (Engelmann, B. (981) 36)

Quinacrine
Calcium ion release inhibition; Sarcoplasmic reticulum; (Rabbit muscle) (Fernandez-Belda, F. (985) 279)

Quinine
Cation transport; Sodium ion transport; Potassium ion transport; Calcium ion dependent transport; (Ehrlich cell) (Smith, T.C. (978) 169)

Quinol oxidation
Cytochrome bc_1 complex; Cytochrome b_6f complex; Stigmatellin; Inhibition; (*S. aurantiaca*) (Nitschke, W. (974) 223)

Quinone
Bicarbonate effect; Electron transfer; Photosynthetic bacterium; Chromatophore; Reaction center; Electron acceptor complex; Photosynthesis; (*Rb. sphaeroides*) (Shopes, R.J. (974) 114)

Quinone binding
Cytochrome bc_1 complex; Electron transport chain; Purple bacterium; (*R. rubrum*) (Kriauciunas, A. (976) 70)

Quinone methide
3,4-Dihydroxymandelic acid; Tyrosinase; Oxidative decarboxylation; 3,4-Mandeloquinone; Pulse radiolysis (Bouheroum, M. (998) 57)

Quinone/NADPH oxidation
Glutathione reductase; Electron transfer; Flavoprotein redox reaction (Čénas, N.K. (973) 399)

R

Radiation inactivation
Taurocholate transporter; Plasma membrane; (Rat liver) (Elsner, R. (983) 113)

ATPase, Na^+/K^+-; Thallium binding; Potassium site (Jensen, J. (985) 248)

β-Glucosidase; Gaucher disease; Lysosome; Subunit coupling; Irradiation; Triton X-100 (Maret, A. (996) 254)

Radical formation
Paraquat; Adriamycin; Breast tumor cell; (Human) (Sinha, B.K. (1010) 304)

Radical pair state
Semiquinone iron; Triplet state; Photoinhibition; Plastoquinone; Photosynthesis (Van Mieghem, F.J.E. (977) 207)

Radical stress
Tocopherol depletion; Lipid peroxidation; Mitochondrial membrane; Protein fragmentation; (Rat) (Thomas, S.M. (1002) 189)

Radioimmunoassay
Kininogen; Kininogenase; Inflammation; Sex hormone; Western blot (Chao, S. (991) 477)

Reversed phase high performance liquid chromatography; Thromboxane A_2; Thromboxane B_2; 2,3-Dinorthromboxane B_2; 11-Dehydrothromboxane B_2 (Patrignani, P. (992) 71)

Insulinoma peptide; C peptide; (Rat) (Al-Ahkras, G. (993) 275)

Ribonuclease; RNAase; (Human seminal plasma) (Sorrentino, S. (998) 97)

Kallikrein; Amino terminal sequence; Cleavage preference; Affinity labeled tracer; (Rat plasma) (Paquin, J. (999) 103)

Prostaglandin-E_2 9-ketoreductase; Enzyme purification; Affinity purified antibody; (Swine kidney) (Krüger, S. (1001) 9)

Leukotriene A_4 hydrolase; Leukotriene metabolism; (Human tissue) (Fu, J.Y. (1006) 121)

Cytokinin; *miaA*; HPLC; Boronate chromatography; tRNA independent cytokinin-like compound; (*S. typhimurium (miaA)*) (Blum, P.H. (1007) 196)

Radiolysis
Ion channel; Gramicidin A; Photolysis; Lipid membrane (Strässle, M. (980) 305)

Radioreceptor assay
Selenoprotein P; Receptor; Selenium transport protein; Competitive binding; (Rat kidney); (Rat liver); (Rat testis) (Gomez, Jr., B. (979) 20)

Raman
Chymotrypsin; Secondary structure; High pressure (Heremans, L. (999) 192)

Raman resonance
Cyanocytochrome *c*; Ferricyanide; Photodecomposition (Chottard, G. (997) 155)

Raman spectroscopy
Photosystem II; Reaction Center; Chlorophyll binding protein; ESR (Ghanotakis, D.F. (974) 44)

Bacterial photosynthesis; Photosynthesis; Reaction center; (*Rps. viridis*) (Zhou, Q. (977) 10)

Phospholipid mixture; Melittin; Phase separation; Lipid–protein interaction; Fluorescence (Lafleur, M. (980) 85)

Tubulin; Microtubule; Secondary structure (Audenaert, R. (996) 110)

Infrared; Phospholipase A_2; Protein conformation (Arêas, E.P.G. (997) 15)

Circular dichroism; Chou-Fasman calculation; Neuropeptide Y; Solid phase synthesis; Vasoconstrictor activity (Balasubramaniam, A. (997) 176)

Random sequential bi-bi mechanism
Glutathione *S*-transferase; Computer modeling; Rapid equilibrium (Ivanetich, K.M. (998) 7)

R and T conformation
Nitrosylhemoglobin; ESR; (Human); (Bovine) (Bhuyan, A.K. (997) 36)

Rapid equilibrium
Glutathione *S*-transferase; Computer modeling; Random sequential bi-bi mechanism (Ivanetich, K.M. (998) 7)

***ras* gene product**
cyclic AMP metabolism; β-Adrenergic receptor; Cell proliferation; Gene expression; (Mouse cell) (Davies, S.-A. (1013) 173)

Rate/pulse method
Catalytic unit; Proton pumping; Oxidant-pulse experiment; Cytochrome-*c* oxidase; Cytochrome-*c* reductase; Myxothiazol; Cyanide; (Rat liver mitochondria) (Moody, A.J. (973) 29)

Rat glioma
Phosphatidylcholine biosynthesis; Electropermeabilization; Choline uptake; Hemicholinium-3; Cellular compartmentation (George, T.P. (1004) 283)

Rat hepatocyte
VLDL secretion; Microsomal triacylglycerol; Chloroquine (Francone, O.L. (1002) 28)

RBL-1 cell
Lipoxin; Ionophore A23187; fMet-Leu-Phe; Phorbol myristate acetate; 5-Lipoxygenase; 15-Lipoxygenase; (Rat) (Ng, C.F. (1004) 332)

Reaction center
Photosynthetic bacteria; Single crystal; Carotenoid; Triplet state; (*Rb. sphaeroides* 2.4.1) (Taremi, S.S. (973) 86)

Cytochrome bc_1 complex; Electron transport; Carotenoid bandshift; Potentiometry; (*Rb. sphaeroides*) (Drachev, L.A. (973) 189)

Carotenoid band shift; Pigment-protein complex; Light harvesting complex; Reconstitution; (*Rb. sphaeroides*) (Crielaard, W. (973) 205)

Electron transfer; Energy transfer; Low temperature; Triplet formation; (*H. chlorum*) (Smit, H.W.J. (973) 212)

Photosynthesis; Photosystem II; Charge separation; Cytochrome *b*-559; (*Synechocystis* 6803) (Gounaris, K. (973) 296)

Photosystem I; Core protein; P-700; Iron-sulfur center; Chaotropic agent; (*Synechococcus* PCC 6301); (*A. nidulans*) (Parrett, K.G. (973) 324)

Photosystem II; Chlorophyll binding protein; ESR; Raman spectroscopy (Ghanotakis, D.F. (974) 44)

Bacterial photosynthesis; Charge recombination; pH dependence; Protonation; (*Rps. viridis*) (Sebban, P. (974) 54)

Bicarbonate effect; Electron transfer; Quinone; Photosynthetic bacterium; Chromatophore; Electron acceptor complex; Photosynthesis; (*Rb. sphaeroides*) (Shopes, R.J. (974) 114)

Optical cross section; Poisson distribution; Trap; Single turnover flash; Quantum requirement; Energy transfer; Fluorescence induction; Antenna, light-harvesting; Pigment protein (Mauzerall, D. (974) 119)

Electron spin polarization; ESR; Photosynthesis; Deuteration; (*Rb. sphaeroides*) (Feezel, L.L. (974) 149)

Enzyme reconstitution; Photophosphorylation; Electron transport; Cytochrome bc_1 complex; ATP synthase; (*R. capsulatus*) (Gabellini, N. (974) 202)

Cytochrome bc_1 complex; Cyclic electron transfer; Proton pumping; Photosynthesis; Liposome reconstitution; (*Rb. sphaeroides*); (*Rb. capsulatus*) (Crielaard, W. (974) 211)

Photosynthetic bacteria; Electron transfer; Supercomplex; Cytochrome; (*Rb. sphaeroides*) (Joliot, P. (975) 336)

Chemically modified electrode; Electron transfer; Photoelectrochemical cell (Katz, E.Y. (976) 121)

Borohydride; Carotenoid; Triplet energy transfer; (*Rb. sphaeroides*) (Frank, H.A. (976) 222)

Bacterial photosynthesis; Photosynthesis; Raman spectroscopy; (*Rps. viridis*) (Zhou, Q. (977) 10)

Photosystem II; Oxygen evolution; Photosynthesis; (*E. gracilis*) (Mizobuchi, A. (977) 26)

Photosynthesis; Bacterial photosynthesis; Delayed fluorescence; Magnetic field effect; (*Rb. sphaeroides*) (Goldstein, R.A. (977) 70)

Photosynthesis; Bacterial photosynthesis; Delayed fluorescence; Magnetic field effect; (*Rb. sphaeroides*) (Goldstein, R.A. (977) 78)

Electron transfer dynamics; Photosynthesis; Charge separation (Bacterium) (Friesner, R.A. (977) 99)

Electron transfer; Heme; Cytochrome *c*; Redox potential; (*Rps. viridis*) (Fritzsch, G. (977) 157)

Electron transfer; Photosynthesis; Bacterial photosynthesis; (*Rps. viridis*) (Krishtalik, L.I. (977) 200)

Superexchange mechanism; Photosynthesis; Charge separation; Quantum mechanics; Franck-Condon factor (Bixon, M. (977) 273)

Reaction center II, bacterial
Carotenoid; Light-harvesting antenna, bacterial; (*R. rubrum*); (*Rb. capsulatus*) (Lozano, R.M. (976) 196)

Reaction center structure
Photosynthesis; Photosystem II; Cytochrome *b*-559; Extinction coefficient (Miyazaki, A. (975) 142)

Reaction rate
Tocopheroxyl radical; Ascorbic acid; Stopped flow (Mukai, K. (991) 276)

Vitamin C derivative; Antioxidant activity; Vitamin E radical (Mukai, K. (993) 168)

Ionic strength dependence; Anion radical; Electric charge distribution; Flash photolysis (Egawa, T. (995) 207)

Reactivation
Human interferon-β1; Oligomer; Monomer; Inactivation; Detergent (Utsumi, J. (998) 167)

Reactive site
Aprotinin derivative; Peptide bond; Chemical modification (Mehlich, A. (996) 23)

RecA protein
Homologous recombination; ssDNA binding protein (Radding, C.M. (1008) 131)

Receptor
Selenoprotein P; Radioreceptor assay; Selenium transport protein; Competitive binding; (Rat kidney); (Rat liver); (Rat testis) (Gomez, Jr., B. (979) 20)

Kallikrein; Endocytosis; (Rat liver) (Kouyoumdjian, M. (980) 299)

Metastasis; Glycosaminoglycan; Interaction; Internalization; Cell culture (Redini, F. (991) 359)

Insulin-like growth factor 1; Insulin-like growth factor 2; Somatomedin; Binding protein (Carlsson-Skwirut, C. (1011) 192)

Thromboxane A_2/prostaglandin H_2 receptor; Photoaffinity labeling; 13-Azapinane; Thromboxane A_2; (Human platelet) (Mais, D.E. (1012) 184)

Asialoglycoprotein; Hybrid toxin; Diphtheria toxin; Toxin translocation (Chang, T.-M. (1013) 239)

Receptor binding
Particulate guanylate cyclase; Atriopeptin; Enzyme kinetics (Waldman, S.A. (999) 157)

LDL receptor; Immunocytofluorimetry; (Human blood lymphocyte) (Benhamamouch, S. (1002) 45)

Receptor capping
Cytoskeleton; Translational entropy (Shiozawa, J.A. (980) 361)

Receptor display
Adenosine; Plasma membrane; Membrane viscosity; Neutrophil (Cronstein, B.N. (987) 176)

Receptor-mediated endocytosis
Scavenger receptor; Maleylated bovine serum albumin; Acetylated LDL; Liver metabolism; Macrophage; Endocytosis; (Rat) (Takata, K. (984) 273)

Autoantigen; Galactose specific receptor; Electron microscopy; (Rat Kuppfer cell); (Rat hepatocyte) (Schlepper-Schäfer, J. (1013) 266)

Receptor operated channels
ATP, extracellular; Calcium ion, cytoplasmic; (Rat pancreatic β-cell line (HIT)) (Geschwind, J.-F. (1012) 107)

Receptor purification
Dopamine D2 receptor; Affinity chromatography; Photoaffinity labeling; Membrane receptor (Clagett-Dame, M. (986) 271)

Receptor regulation
Prostaglandin D_2 receptor; (Mouse mastocytoma P-815 cell) (Yoshimura, S. (981) 69)

Receptor structure
Asialoglycoprotein; Diacytosis; (Rabbit hepatocyte); (Rat hepatocyte) (Chang, T.-M. (1014) 229)

Recombinant DNA
Growth hormone cDNA; Gene dosage effect; cDNA expression; (*E. coli* vector); (Human gene) (Yamakawa, M. (1009) 156)

Nucleotide sequence; Restriction endonuclease; Restriction-modification system; (*E. coli*) (Kossykh, V. (1009) 290)

Recombinant interleukin 1α
Calmodulin; Procollagenase; W-7; Human cervix; (Fibroblast) (Ojima, Y. (1011) 61)

Recombinant tissue type plasminogen activator
Plasminogen activator; Vascular plasminogen activator; Kinetics; Amino acid sequence; Carbohydrate composition; (Human) (Hamaguchi, M. (1009) 143)

Reconstituted hybrid vesicle
Phospholipid; Envelope glycoprotein; Glycoprotein; (Sendai virus); (Influenza virus) (Lapidot, M. (980) 281)

Reconstituted lipid vesicle
ATPase, Na^+/K^+-; Ion flux; Pump current; Coupling ratio (Clarke, R.J. (981) 326)

Reconstitution
Bacteriorhodopsin; Photocycle; High pressure; Spectroscopy (Park, D.-G. (973) 19)

Carotenoid band shift; Pigment-protein complex; Reaction center; Light harvesting complex; (*Rb. sphaeroides*) (Crielaard, W. (973) 205)

Transport protein; Carrier protein; Enzyme characterization; Artificial membrane; (Mitochondria) (Krämer, R. (974) 1)

Tricarboxylate carrier; Membrane transport; Liposome; Mitochondrion; (Rat liver) (Bisaccia, F. (977) 171)

N-Formyl peptide receptor; GTP binding protein; Phospholipid vesicle; Detergent extraction (Cupo, J.F. (982) 31)

Sodium ion–proton exchange; Halotolerance; (*Dunaliella*) (Katz, A. (983) 9)

Nucleoside transport; (Human erythrocyte) (Tse, C.-M. (985) 343)

Porin; Mitochondrion; Lipid bilayer; Ion selectivity; VDAC; (*D. melanogaster*) (De Pinto, V. (987) 1)

Red blood cell
Membrane splitting; Protein kinase C; Tumor promoter; Diacylglycerol; Phorbol ester; 12-*O*-Tetradecanoylphorbol 13-acetate (Fisher, K.A. (982) 237)

Rose Bengal; Intensity; Wavelength; Photosensitization; Acetylcholinesterase (Fluhler, E.N. (990) 269)

Redox
Hexabromoiridate (IV); Hexacyanoferrate (III); Hexachloroiridate (IV); Plasmalemma; (*Z. mays* L.) (Lüthje, S. (977) 335)

Redox balance
Alga; Chloroplast; Glycerol-3-phosphate dehydrogenase; Starch degradation (Klöck, G. (991) 347)

Redox potential
Cytochrome c_3; Ferredoxin I cross-linking; ESR; Electron transfer, intramolecular; Iron-sulfur cluster (Dolla, A. (975) 395)

Reaction center; Electron transfer; Heme; Cytochrome *c*; (*Rps. viridis*) (Fritzsch, G. (977) 157)

Redox property
Cytochrome c_4; NMR; ESR; MCD; (*A. vinelandii*) (Gadsby, P.M.A. (994) 37)

Redox protein
Electron transfer protein; Bacterial protein; Protein structure (Meyer, T.E. (975) 1)

Redox titration
Hydrogenase; Nickel; Enzyme activity; (*M. thermoautotrophicum*) (Coremans, J.M.C.C. (997) 256)

5α-Reduced-C_{21} steroid
Steroid, Δ^{16}-C_{19}; Substrate specificity; Cytochrome *P*-450; Steroid biosynthesis; (Pig testis microsomes) (Kohara, H. (991) 141)

5α-Reductase
Solubilization; Nuclear membrane; (Rat ventral prostate) (Enderle-Schmitt, U. (987) 21)

Reduction
Oxidation; Nitroxide spin label; Hydroxylamine; Tempone, ^{15}N perdeuterated (Chen, K. (992) 131)

Reflection coefficient
Equivalent pore radius; Respiration; Osmotic swelling; (Rat liver mitochondria) (Mathai, J.C. (976) 214)

Brush-border membrane; Light scattering; Refractive index; Osmotic permeability; (Rat kidney) (Van der Goot, F. (979) 272)

Proximal tubule; Osmotic permeability; Light scattering; Membrane vesicle; (Rabbit kidney) (Van der Goot, F.G. (986) 332)

Refolding
Carbonic anhydrase; Renaturation; Denaturation; Cobalt; Apoenzyme (Bergenhem, N. (998) 277)

Refractive index
Reflection coefficient; Brush-border membrane; Light scattering; Osmotic permeability; (Rat kidney) (Van der Goot, F. (979) 272)

Regulation
Anthranilate synthase; Prephenate dehydratase (Tianhui, X. (991) 6)

Dolichyl phosphoglucose; Glucosyltransferase; Microsomal membrane; (Human liver microsome) (Matern, H. (1004) 67)

Relative binding affinity
Progesterone receptor; Endometrium; Myometrium; Antiprogestin ZK 98.299; Binding characteristic; (Human) (Puri, C.P. (1011) 176)

Relaxation kinetics
Chlorophyll fluorescence; High energy state; Non-photochemical quenching; Photoinhibition; State transition (Hodges, M. (974) 289)

Renal development
Fanconi syndrome; Succinylacetone; Membrane fluidity; Tyrosinemia (Roth, K.S. (987) 38)

Renal epithelial cell line
11-Hydroxysteroid dehydrogenase; Corticosteroid metabolism; Corticosterone; Adrenal steroid; (Monkey); (Dog); (Pig) (Korbmacher, C. (1010) 311)

Renal tubular transport
Cimetidine; Drug interaction; Procainamide; (Rat kidney) (Okudaira, N.-I. (981) 1)

Renal tubule
Phosphate transport; Protein kinase C; Brush border membrane; Phorbol myristate acetate (Boneh, A. (1012) 308)

Renaturation
Carbonic anhydrase; Refolding; Denaturation; Cobalt; Apoenzyme (Bergenhem, N. (998) 277)

Renin synthesis
Bradykinin antagonist; Prostaglandin synthesis; Prostaglandin E_2; Calcium; Cytosolic free calcium; (Rabbit vascular smooth muscle cell) (Dussaule, J.-C. (1005) 34)

Reorientational dynamics
Phospholipid; Curvature; ESR; Cholestane spin label; Lipid vesicle; Hydration (Korstanje, L.J. (982) 196)

Repair
Photodynamic effect; Hematoporphyrin derivative; Hyperthermia; L929 cells; 2-Aminoisobutyric acid transport; Protein synthesis (Boegheim, J.P.J. (979) 215)

Repetitive element
Actin, γ-; Pseudogene; (Mouse) (Yoda, K. (1009) 194)

Resonance energy transfer
Dipalmitoylphosphatidylcholine; Model membrane; Free fatty acid; Fourier transform infrared spectroscopy (McKersie, B.D. (982) 156)

Resonance Raman
Fourier transform infrared spectroscopy; Pheophorbide; Chlorophyll (Andersson, L.A. (974) 163)

Chlorophyll *a*; Hydrogen bonding; Intermolecular interaction; Spectroscopy; Photosynthesis (Krawczyk, S. (976) 140)

Resonance Raman spectroscopy
Protonated Schiff base; Opsin shift; Chromophore; Lipid–protein interaction; (Bacteriorhodopsin) (Pande, C. (973) 257)

Respiration
Mass spectrometry; Filamentous cyanobacterium; Photosystem II; Hydrogen peroxide; (*O. chalybea*) (Bader, K.P. (974) 303)

Equivalent pore radius; Reflection coefficient; Osmotic swelling; (Rat liver mitochondria) (Mathai, J.C. (976) 214)

ATPase, Na^+/K^+-; Ouabain; Thyroid hormone; (Hepatocyte) (Nobes, C.D. (976) 241)

Respiration, bacterial
Photosynthetic bacterium; Cytochrome *c*; Electron transfer; (Rhodospirillaceae) (Lavorel, J. (973) 290)

Respiratory burst
Leukocyte; Neutrophil cytoplast; Calcium ionophore; (Human) (Dahlgren, C. (1010) 41)

Respiratory chain
NADH–quinone oxidoreductase, thylakoid-bound; Cyanobacterium; (*A. variabilis*) (Alpes, I. (973) 41)

Electron transport; Cytochrome *c*; Cytochrome-*c* oxidase; Cytochrome-*c* reductase; (*P. denitrificans*) (Bolgiano, B. (973) 227)

Electron transport; Pathogenic bacteria; (*Pseudomonas*) (Zannoni, D. (975) 299)

NADH : quinone reductase; NADH-dehydrogenase; Flavoprotein; (*E. coli*) (Hayashi, M. (977) 62)

Cytochrome *c*; Electron transfer; (Thermophilic bacterium PS3) (Sone, N. (977) 329)

Respiratory distress
Phospholipid; Pulmonary surfactant; Lamellar body; (Rabbit) (Casals, C. (1003) 201)

Respiratory mucin
Mucin degradation; Infection; (Human); (*P. aeruginosa*) (Houdret, N. (992) 96)

Respiratory mutant
Proteolipid composition; ATPase, subunit 8; (*S. cerevisiae* mitochondria) (Manon, S. (985) 127)

Response element
Triiodothyronine; Pituitary; Gene expression; Thyrotrophin; Prolactin (Ahlquist, J.A.O. (1008) 251)

Restriction endonuclease
DNA methylation; Gene expression; DNAase I hypersensitivity; Southern blotting; Adenovirus type 12-transformed cell (Bartnik, E. (1007) 228)

Enzyme purification; Acidophilic bacterium; Isoschizomer; (*A. facilis*) (Dou, D. (1009) 83)

Recombinant DNA; Nucleotide sequence; Restriction-modification system; (*E. coli*) (Kossykh, V. (1009) 290)

Restriction enzyme analysis
Estrogen receptor gene; Untranslated region (3′-); (Human) (Keaveney, M. (1007) 289)

Restriction fragment length polymorphism
Apolipoprotein B gene; Genetic polymorphism; (Human fibroblast) (Series, J. (1003) 183)

Restriction-modification system
Recombinant DNA; Nucleotide sequence; Restriction endonuclease; (*E. coli*) (Kossykh, V. (1009) 290)

Reticulocyte
Transferrin receptor; Calcium chelator; Cytoskeleton (Morgan, E.H. (981) 121)

High molecular weight cysteine proteinase; ATP activated proteolysis; Multicatalytic proteinase; Proteinase-α_1-macroglobulin complex; (Rabbit) (Kuehn, L. (991) 263)

Sodium ion, intracellular; Magnesium ion, intracellular; Calcium ion, intracellular; Erythrocyte; (Guinea pig blood) (Jelicks, L.A. (1012) 261)

Reticuloendothelial system
Mononuclear phagocyte system; Liposome; Ganglioside; Drug delivery; Sphingomyelin; (Mouse) (Allen, T.M. (981) 27)

Retinal
Bacteriorhodopsin; M_{412} intermediate; Photoselection; Fourier transform infrared difference spectroscopy (Breton, J. (973) 13)

Retinitis pigmentosa
Posterior subcapsular cataract; Lipid peroxidation; Lens fiber; Membrane damage; Glutathione; Cataractogenesis; (Human) (Babizhayev, M.A. (1004) 124)

Retinoic acid
Vitamin A; Retinoid; Differentiation (Renstrom, B. (998) 69)

Retinol; Ito cell; Myofibroblast; Lipid metabolism; (Mouse liver cell) (Margis, R. (1011) 1)

Collagen IV; Cell cycle; Tumorigenicity; Cell differentiation; c-*myc* gene; (F9 teratocarcinoma cell) (Schulz, W.A. (1013) 125)

Vitamin A; Bone formation; (Chick bone cell) (Dickson, I.R. (1013) 254)

Retinoid
Vitamin A; Retinoic acid; Differentiation (Renstrom, B. (998) 69)

Protein binding; Medium composition; Sertoli cell; (Rat) (Galdieri, M. (1011) 168)

Retinol
Cellular retinol binding protein; Squamous cell carcinoma; (Human) (Wahlberg, P. (1010) 287)

Retinoic acid; Ito cell; Myofibroblast; Lipid metabolism; (Mouse liver cell) (Margis, R. (1011) 1)

Retinyl ester
UDP glucuronosyltransferase; Glucuronidation; Vitamin A; TCDD (Bank, P.A. (993) 1)

Retroendocytosis
HDL receptor; Monocyte-derived macrophage; Reverse cholesterol transport; Atherosclerosis; (Human macrophage) (Alam, R. (1004) 292)

Retrovirus glycoprotein
Protein folding; Protein structure prediction (Busetta, B. (998) 301)

Reverse cholesterol transport
HDL receptor; Monocyte-derived macrophage; Retroendocytosis; Atherosclerosis; (Human macrophage) (Alam, R. (1004) 292)

Reversed micellar system
Micellar enzymology; Membrane; Enzyme (Martinek, K. (981) 161)

Reversed micelle
Oligomeric enzyme; γ-Glutamyltransferase; Surfactant; Organic solvent (Kabanov, A.V. (996) 147)

Reversed phase high performance liquid chromatography
Radioimmunoassay; Thromboxane A_2; Thromboxane B_2; 2,3-Dinorthromboxane B_2; 11-Dehydrothromboxane B_2 (Patrignani, P. (992) 71)

Reverse micellar enzymology
Glutathione reductase activity; Surfactant; Nonpolar solvent (Kumar, A. (996) 1)

Reverse T_3
Thyroid hormone; 3,3′,5′-Triiodo-L-thyronine; Bovine serum albumin; Fluorescence (Okabe, N. (990) 303)

Revision
Amino acid sequence; Pancreatic spasmolytic polypeptide; pS2 (Rose, K. (998) 297)

RHC 80267
Diacylglycerol lipase; Inositol phosphate production; (Rat gastric parietal cell) (Pfeiffer, A. (1001) 191)

Rhodamine 6G
Cholesterol esterase; Fluorescein dilaurate; Tetrameric enzyme molecule; Nitrophenyl ester; (Human pancreas) (Meyer, J.G. (1002) 89)

Rhodophyta
Bromoperoxidase; Vanadium enzyme; Immunological property; (*C. pilulifera*) (Krenn, B.E. (998) 63)

Rhodopsin
Lateral diffusion; Rod outer segment; Visual transduction; Transducin; G protein (Saxton, M.J. (979) 27)

Paraflagellar swelling; Microspectrophotometry; (*E. gracilis*) (Gualtieri, P. (993) 293)

Rhodopsin structure
FT-IR; Amide proton exchange; Bacteriorhodopsin structure; Conformational change (Haris, P.I. (995) 160)

Riboflavin
Plasma membrane; Flavin; Autofluorescence; Fluorescence photobleaching recovery; FRAP; (Rat liver) (Nokubo, M. (981) 303)

Riboflavin deficiency
Mitochondrion; Peroxisome; Acyl-CoA; Flavoprotein; Organic acid; (Rat) (Veitch, K. (1006) 335)

Ribonuclease
Thermal unfolding; Denaturation; Trichloroacetic acid treatment; NMR; (Bovine pancreas) (Sagar, A.J. (995) 144)

RNAase; Radioimmunoassay; (Human seminal plasma) (Sorrentino, S. (998) 97)

Ribonucleolytic activity
HPLC; Base specificity; Vacuolar ribonuclease; (*L. esculentum*) (Abel, S. (998) 145)

Ribonucleotide reductase
Thymidine kinase; DNA polymerase; Cell cycle; (Mouse mastocytoma) (Schaer, J.-C. (1009) 90)

D-Ribose 5-phosphate
DAHP synthase; Inhibition; D-Erythrose 4-phosphate (Tianhui, X. (991) 1)

Ribose-phosphate pyrophosphokinase
Nucleotide synthesis; Phosphoribosylpyrophosphate synthetase; Tissue-specific expression; Testis-specific transcript; recombinant DNA; (rat tissue) (Taira, M. (1007) 203)

Ribosomal protein
Yeast; Protein methylation; Lysine *N*-methyltransferase (Lobet, Y. (997) 224)

tRNA binding site; Photoaffinity labeling; (*E. coli*) (Graifer, D.M. (1008) 146)

Colorectal cancer; Gene expression; Tumor marker; Nucleotide sequence; Growth regulation; (Human) (Chester, K.A. (1009) 297)

Ribosomal protein S4
Amino acid sequence; Protein primary structure; S4, protein; (Rat) (Devi, K.R.G. (1008) 258)

Ribosome
Synergimycin; Antibiotic; Protein synthesis; Peptidyltransferase inhibitor (Nyssen, E. (1009) 39)

Ribosome inactivating protein
Momorcochin-S; RNA *N*-glycosidase; Immunotoxin (Bolognesi, A. (993) 287)

Ribulose-bisphosphate carboxylase
Cobaltous ion; Transient intermediate; Optical absorption (Brändén, R. (995) 75)

Rieske protein
Iron-sulfur cluster; Cytochrome bc_1; Nitrogen ligand; (Bovine heart) (Powers, L. (975) 293)

Rippled phase
Dioleoylphosphatidylcholine bilayer; Water/lipid system; Lamellar phase; Hexagonal H_{II} phase; X-ray diffraction (Bradshaw, J.P. (987) 104)

Dioleoylphosphatidylcholine bilayer; Dioleoylphosphatidylethanolamine; Neutron diffraction (Bradshaw, J.P. (987) 111)

RNA degradation
pnd$^+$ gene; Nucleotide sequence; Gene expression; Magnesium efflux; (*E. coli*) (Sakikawa, T. (1007) 158)

RNA editing
Kinetoplast DNA; DNA; Maxicircle; Minicircle; Transcription; (Trypanosome mitochondria) (Benne, R. (1007) 131)

RNA *N*-glycosidase
Momorcochin-S; Ribosome inactivating protein; Immunotoxin (Bolognesi, A. (993) 287)

RNA polymerase
Protein kinase C; Human leukemia (Chuang, L.F. (992) 87)

RNA polymerase III
Fructose-biphosphate aldolase; Gene expression; α-Amanitin; (Rat) (Arai, Y. (1007) 91)

RNA synthesis
Development; Formycin inhibition; Starfish embryo; Blastulation; (*A. pectinifera*) (Isomura, H. (1007) 343)

Systemic lupus erythematosus; DNA synthesis; Autoantibody; (Human) (Van Helden, P.D. (1009) 137)

Nb_2 node lymphoma cell; Prolactin; Amiloride; Protein synthesis; DNA synthesis (Rillema, J.A. (1014) 78)

RNA transfection
Electroporation; Voltage shock; Phage RNA; (*E. coli*) (Taketo, A. (1007) 127)

RNA transport factor
Transport protein; mRNA transport factor; Oncofetal transport factor; Carcinogenesis; (Rat liver nuclei) (Schumm, D.E. (1009) 54)

cRNA expression
Band 3 protein; Oligonucleotide-directed mutagenesis; Inhibitor binding site; (*Xenopus* oocyte) (Bartel, D. (985) 355)

lysine tRNA
mitochondrial DNA; tRNA gene; (Wheat) (Joyce, P.B.M. (1008) 355)

mRNA
Lung surfactant; cDNA; Type II cell (Emrie, P.A. (994) 215)

Malic enzyme; Transcription; Insulin; Nutrient: (Rat) (Katsurada, A. (1004) 103)

Hormone sensitive lipase; Adipose tissue; cDNA; Lipase; (Human) (Holm, C. (1006) 193)

Lung surfactant; Fatty-acid synthase; Acetyl-CoA; ATP citrate lyase; Malic enzyme; (Rat lung) (Batenburg, J.J. (1006) 329)

Germinal gene; Histone H4 gene; Gene structure; Gene expression; Histone mRNA (Wolfe, S.A. (1007) 140)

5-Aminolevulinate synthase; Drug induction; (Rat) (Srivastava, G. (1007) 192)

Spherulation; Spherulin 4; Plasma membrane protein; Development; (*P. polycephalum*) (Savard, L. (1007) 264)

Stress induced gene expression; Heat shock protein mRNA; Metallothionein mRNA; Heavy metal; Gene expression; (Fish cell lines) (Misra, S. (1007) 325)

cDNA sequence; Lipoprotein lipase; (Avian); (Adipose); (Heart) (Cooper, D.A. (1008) 92)

Calcitonin; CGRP-I; Alternative splicing; Gene expression; (Human) (Bovenberg, R.A.L. (1008) 223)

Ornithine decarboxylase; Hyperthermia; Ornithine decarboxylase mRNA; (Ehrlich ascites tumor cell) (Matsui-Yuasa, I. (1014) 225)

mRNA accumulation
Ornithine decarboxylase; Liver regeneration; (Rat); (Mouse) (Hirvonen, A. (1007) 120)

Cycloheximide; Emetine; (*D. discoideum*) (Ratner, D.I. (1008) 71)

mRNA binding
Protein synthesis; In vitro translation; Inhibition; (Mouse erythroleukemia cell) (Bader, M. (1009) 61)

mRNA binding protein
Protein phosphorylation; Maternal mRNA; Oocyte; (*Xenopus laevis*) (Cummings, A. (1014) 319)

mRNA level
DNA polymerase β; (Rat liver) (Nowak, R. (1008) 203)

mRNA stability
Hydrogen peroxide resistance; Antioxidant enzyme; Drug resistance; Catalase mRNA; (MCF7) (Akman, S.A. (1009) 70)

mRNA, steady state level
Chorionic gonadotropin synthesis; Gene structure; Tumor cell line; (Human) (Cosgrove, D.E. (1007) 44)

mRNA transport factor
Transport protein; RNA transport factor; Oncofetal transport factor; Carcinogenesis; (Rat liver nuclei) (Schumm, D.E. (1009) 54)

snRNA
Genetic evolution; DNA sequence; U3 gene; U3 pseudogene; (Human) (Yuan, Y. (1008) 14)

$tRNA_I^{Val}$
Valine-tRNA synthetase; NMR, ^{13}C-; tRNA–protein interaction; Contact site; (*E. coli); (B. stearothermophilus*) (Schweizer, M.P. (1008) 293)

tRNA binding site
Photoaffinity labeling; Ribosomal protein; (*E. coli*) (Graifer, D.M. (1008) 146)

tRNA gene
mitochondrial DNA; lysine tRNA; (Wheat) (Joyce, P.B.M. (1008) 355)

tRNA independent cytokinin-like compound
Cytokinin; *miaA*; Radioimmunoassay; HPLC; Boronate chromatography; (*S. typhimurium (miaA)*) (Blum, P.H. (1007) 196)

tRNA–protein interaction
Valine-tRNA synthetase; NMR, ^{13}C-; $tRNA_I^{Val}$; Contact site; (*E. coli); (B. stearothermophilus*) (Schweizer, M.P. (1008) 293)

tRNA structure
Porphyrin–RNA interaction; NMR; DNA (Birdsall, W.J. (1007) 176)

viral mRNA
Transactivating protein; Nuclear matrix; HIV-1 (Müller, W.E.G. (1008) 208)

RNAase
Ribonuclease; Radioimmunoassay; (Human seminal plasma) (Sorrentino, S. (998) 97)

Rod outer segment
Lateral diffusion; Visual transduction; Rhodopsin; Transducin; G protein (Saxton, M.J. (979) 27)

Rose Bengal
Organic anion binding; Fluorescence probe; Sinusoidal membrane vesicle; Canalicular membrane vesicle; (Rat liver) (Yachi, K. (978) 1)

Intensity; Wavelength; Photosensitization; Red blood cell; Acetylcholinesterase (Fluhler, E.N. (990) 269)

Rotational diffusion
Spin label; Membrane protein; ATPase, Na^+/K^+-; Saturation transfer ESR (Esmann, M. (978) 209)

ATPase; Sarcoplasmic reticulum; Phospholamban; Phosphorescence polarization; Protein phosphorylation (Fowler, C. (980) 348)

Rotational dynamics
Phosphatidylcholine; Planar multibilayer; ESR; Spin label; Order parameter (Korstanje, L.J. (980) 225)

Erythrocyte membrane; Spectrin; Cytoskeletal matrix; Time-resolved phosphorescence anisotropy; Phosphorescence (Learmonth, R.P. (987) 124)

Rotational mobility
Band 3 protein; Ankyrin; Cytoskeleton protein; (Human erythrocyte) (Clague, M.J. (981) 43)

Rubidium-86 outflow
Sodium ion omission; (Rat pancreatic islet cell) (Lebrun, P. (1011) 6)

Rubidium-86 uptake
ATPase, Na^+/K^+-; ATP phosphohydrolase; Ouabain binding; Divalent cation; (Guinea-pig heart) (Hagane, K. (982) 279)

S

pS2
Amino acid sequence; Revision; Pancreatic spasmolytic polypeptide (Rose, K. (998) 297)

Safranine
Metachromasy; Lipase; Lipolytic enzyme; Spectrophotometric assay (Rawyler, A. (1004) 337)

Salt tolerance
Glycerol kinase; Yeast; Osmoregulation; (*D. hansenii*) (Nilsson, A. (991) 296)

Saponin
Inositol 1,4,5-trisphosphate; cyclic AMP; Calcium ion release; Platelet; (Human) (Tohmatsu, T. (1013) 190)

Sarcolemma
Opioid receptor; Phenylephrine; Isoproterenol (Ventura, C. (987) 69)

Sarcoplasmic reticulum
Fourier transform infrared spectroscopy; ATPase, Ca^{2+}-; Secondary structure; (Rabbit) (Villalain, J. (978) 305)

Muscle culture; Skinned muscle; Calcium ion accumulation (Brik, H. (980) 273)

ATPase; Phospholamban; Rotational diffusion; Phosphorescence polarization; Protein phosphorylation (Fowler, C. (980) 348)

Calcium binding protein; Endoplasmic reticulum; Calregulin homology (Fliegel, L. (982) 1)

ATPase, Ca^{2+}-; Fourier transform infrared spectroscopy (Buchet, R. (983) 167)

Zinc ion; ATPase, $(Ca^{2+} + Mg^{2+})$-; Fluorescein (Henao, F. (984) 135)

Calcium ion release; Silver ion effect; (Rabbit skeletal muscle) (Moutin, M.-J. (984) 289)

Calcium ion effect; ATPase, Ca^{2+}-; ATPase dimer (Keresztes, T. (984) 326)

Calcium ion transport; Back inhibition; ATP regulatory site; (Rabbit) (De Meis, L. (984) 373)

Quinacrine; Calcium ion release inhibition; (Rabbit muscle) (Fernandez-Belda, F. (985) 279)

Skeletal muscle; ATPase protein; Modification (Bailin, G. (995) 122)

Saturated fatty acid
Intestinal transport; Dietary fatty acid; Polyunsaturated fatty acid; Ileum; Jejunum; (Rat) (Thomson, A.B.R. (1001) 302)

Saturation transfer ESR
Spin label; Rotational diffusion; Membrane protein; ATPase, Na^+/K^+- (Esmann, M. (978) 209)

Lipid–protein interaction; Photosystem II; Spin label; ESR (Li, G. (987) 187)

Saxitoxin
Myelinated nerve; Sodium ion channel; Tetrodotoxin; (Frog) (Lönnendonker, U. (985) 153)

Myelinated nerve; Sodium ion channel; Tetrodotoxin; Fluctuation analysis; (Frog) (Lönnendonker, U. (985) 161)

Scanning electron microscopy
Myelin figure; Growth mechanism; Phosphatidylcholine; Cryo-stage system (Sakurai, I. (985) 101)

Scavenger receptor
Maleylated bovine serum albumin; Acetylated LDL; Liver metabolism; Macrophage; Endocytosis; Receptor-mediated endocytosis; (Rat) (Takata, K. (984) 273)

Nonenzymatic glycosylation; THP-1; Leukemia cell; Aldehyde modified protein (Takata, K. (986) 18)

Acetylated low density lipoprotein receptor; Atherosclerosis; LDL; Lipoprotein acetylation; Macrophage stimulation (Leake, D.S. (1005) 196)

***Scenedesmus* mutant (LF-1)**
Photosynthesis; Manganese; Oxygen evolution; D1 protein; Histidine (Seibert, M. (974) 185)

Schiff base oxidation
Phenylacetaldehyde; Neutrophil; Myeloperoxidase; Chemiluminescence (Nascimento, A.L.T.O. (991) 50)

SDS-polyacrylamide gel electrophoresis
Subtilisin; Protein folding; Autolysis (Owers Narhi, L. (990) 144)

Sea urchin
Exogastrula; Exogastrula inducing peptide; Gastrulation; Primary structure; (*A. crassispina*) (Suyemitsu, T. (999) 24)

***secA* gene**
Intracytoplasmic membrane; Lipopolysaccharide; Membrane biogenesis; Protein export; (*E. coli*) (De Cock, H. (985) 313)

Secondary structure
Fourier transform infrared spectroscopy; ATPase, Ca^{2+}-; Sarcoplasmic reticulum; (Rabbit) (Villalain, J. (978) 305)

Magainin 1; Membrane permeability; Lipid charge; Binding isotherm (Matsuzaki, K. (981) 130)

Tubulin; Microtubule; Raman spectroscopy (Audenaert, R. (996) 110)

Crotoxin homolog; Fluorescence; Circular dichroism; Fourier transform infrared spectroscopy (Aird, S.D. (997) 211)

Textilotoxin; Presynaptic neurotoxin; Phospholipase; Protein; Spectroscopy (Aird, S.D. (997) 219)

Chymotrypsin; Raman; High pressure (Heremans, L. (999) 192)

Bacteriophage $\alpha 3$; Origin mutant; Point mutation; DNA sequence (Kodaira, K.-I. (1007) 359)

Secondary structure model
Bacteriorhodopsin; Proteolysis; Protein blotting; Microsequencing (Fimmel, S. (978) 231)

Secondary structure prediction
Protein sequence; Membrane protein; Cytochrome, *b*-type; Histidine ligand; Heme (Degli Esposti, M. (977) 249)

Second messenger
Neomycin; Surface potential; Zeta potential; Phosphatidylinositol 4,5-bisphosphate (Gabev, E. (979) 105)

Secretagogue
Calcium ion, intracellular; cyclic AMP; Calcium ion buffer; Fura-2; (Rabbit gastric mucosa) (Michelangeli, F. (983) 82)

Secretin
Secretin structure; Imidazole; Histidine reactivity; Ionization constant (Hefford, M.A. (998) 267)

Secretin structure
Secretin; Imidazole; Histidine reactivity; Ionization constant (Hefford, M.A. (998) 267)

Secretion
Calcium ion; Thrombin; Sodium ion–proton exchange; (Human platelet) (Alonso, M.T. (981) 367)

Gastric mucin; Sulfation; (Rat) (Van Beurden-Lamers, W.M.O. (990) 232)

Apolipoprotein; HDL; Lipoprotein assembly; Transfection; (Chicken) (Dixon, J.L. (1009) 47)

Sedimentation field flow fractionation
Interleukin 1; Proteoglycan size distribution; Proteoglycan metabolism (Arner, E.C. (993) 100)

Sedimentation property
Chitin synthetase; Chitosome; Isopycnic sedimentation; (*N. crassa*) (Martínez, J.P. (990) 45)

Selective localization
ESR; Oxygen, intracellular; Nitroxide; Aminoxyl; Nitroxyl (Hu, H. (1014) 211)

Selective uptake
HDL; Cholesteryl ester; Murine adrenocortical cell; Plasma membrane; Cholesteryl ether (Knecht, T.P. (1002) 365)

Selectivity
Hemolysin; Ion channel; Single-channel current; Current-voltage characteristic; Phospholipid bilayer; pH dependence; (*E. coli*) (Ropele, M. (985) 9)

Selenium
Glutathione peroxidase; Phospholipid hydroperoxide glutathione peroxidase; Glutathione; (Rat) (Zhang, L. (1006) 140)

Prostacyclin; PAF; Cyclooxygenase; Glutathione peroxidase; (Human endothelial cells) (Hampel, G. (1006) 151)

Selenium deficiency
Glutathione peroxidase; Gene expression; Species difference (Toyoda, H. (1008) 301)

Selenium transport protein
Selenoprotein P; Radioreceptor assay; Receptor; Competitive binding; (Rat kidney); (Rat liver); (Rat testis) (Gomez, Jr., B. (979) 20)

Selenoprotein P
Radioreceptor assay; Receptor; Selenium transport protein; Competitive binding; (Rat kidney); (Rat liver); (Rat testis) (Gomez, Jr., B. (979) 20)

Selenoprotein purification; (Rat plasma) (Motchnik, P.A. (993) 27)

Selenoprotein purification
Selenoprotein P; (Rat plasma) (Motchnik, P.A. (993) 27)

Seminal fluid
19-Hydroxyprostaglandin $F_{2\alpha}$; Cytochrome *P*-450; Prostaglandin hydroxylase; Mass spectrometry; (Human) (Oliw, E.H. (1001) 107)

Semiquinone iron
Triplet state; Radical pair state; Photoinhibition; Plastoquinone; Photosynthesis (Van Mieghem, F.J.E. (977) 207)

Semiquinone radical
Triphasic reduction; Cytochrome bc_1 complex; Kinetics, i-site (West, I.C. (976) 182)

Adriamycin; NAD dimer; Photooxidation (Carelli, V. (991) 25)

Semliki Forest virus
Phospholipid asymmetry; Phospholipase A_2 (Allan, D. (987) 199)

Sequence heterogeneity
Apolipoprotein A-IV; Amino acid sequence; DNA sequence; HDL; Lecithin–cholesterol acyltransferase (Yang, C.-y. (1002) 231)

Sequence homology
Growth hormone; cDNA sequence; Amino acid sequence; (Carp, *C. carpio*) (Chao, S.-C. (1007) 233)

Leucine-rich glycoprotein; cDNA sequence; Amino acid sequence; (Mouse cDNA); (Human cDNA) (Setoguchi, M. (1008) 213)

Sequence pattern
DNA conformation; DNA sequence (Nussinov, R. (1008) 329)

Sequencing
Delta variant; Unstable hemoglobin; Hemoglobin; δ-Thalassemia; DNA amplification; Peptide analysis (Codrington, J.F. (1009) 87)

D-Serine
Phosphatidylserine; Phosphatidylcholine; Phosphatidic acid; Phospholipase D; L-Serine; (*Streptomyces*) (Juneja, L.R. (1003) 277)

L-Serine
Phosphatidylserine; Phosphatidylcholine; Phosphatidic acid; Phospholipase D; D-Serine; (*Streptomyces*) (Juneja, L.R. (1003) 277)

Serine dehydratase
Peptide sequence; Pyridoxalphosphate; Threonine dehydratase; (Rat liver); (Yeast); (*E. coli*) (Ogawa, H. (996) 139)

Serine proteinase
Calcium; Collagen; Fibronectin; Extracellular matrix; (Malignant hamster embryo fibroblast); (Nil2C2) (Sakiyama, H. (990) 156)

Enzyme mechanism; Trypsin-like enzyme; Catalytic mechanism (Ascenzi, P. (998) 210)

Serotonin
Planar bilayer; Ganglioside; Calcium (Matinyan, N.S. (984) 313)

Serotonin release inhibitor
Carbamoylpiperidinoalkane; *N*-Alkylnipecotoylpiperazine; Platelet aggregation inhibitor; Platelet factor 4 release inhibitor; Structure-activity relationship; Dense body; α-Granule; Platelet plasma membrane (Dillingham, E.O. (990) 128)

Serpin
α_2-Antiplasmin; Plasminogen; Proteinase inhibitor; *cis*-Dichlorodiammineplatinum(II) (Geary, W.A. (994) 1)

α_1-Antichymotrypsin; Microheterogeneity; Isoelectric focusing; Amino terminal amino acid sequence (Lindmark, B. (997) 90)

Sertoli cell
Protein binding; Retinoid; Medium composition; (Rat) (Galdieri, M. (1011) 168)

Serum
Glucose transport; Glucose transporter mRNA; Growth factor; Phorbol ester; (Mouse fibroblasts 3T3) (Kitagawa, T. (980) 100)

Serum activation
Cystic fibrosis; Enterokinase; Immunoreactivity; Trypsin; (Human) (Carrère, J. (993) 137)

Serum albumin
Protein glycosylation; Lectin (Aring, J. (1010) 140)

Serum amyloid A
Antipeptide; Antibody; (Human plasma) (Saïle, R. (992) 407)

Lecithin–cholesterol acyltransferase; HDL metabolism; Cholesteryl ester; (Human plasma) (Steinmetz, A. (1006) 173)

Serum spreading factor
Vitronectin; Cell spreading assay; Heparin binding; Monoclonal antibody; (Human plasma) (Izumi, M. (990) 101)

Sex hormone
Kininogen; Kininogenase; Inflammation; Radioimmunoassay; Western blot (Chao, S. (991) 477)

Sex related difference
Fatty acid uptake; (Liver) (Noy, N. (1003) 125)

Shape alteration
Vesicle release; Amphiphile; Detergent; Erythrocyte (Hägerstrand, H. (982) 179)

Shear stress
Arachidonic acid metabolism; Prostaglandin; (Human endothelial cell) (Nollert, M.U. (1005) 72)

Shuttle plasmid
recombinant DNA; DNA; Luminescence; Luciferase gene; Gene expression; (*V. harveyi* gene); (*B. subtilis*); (*E. coli*) (Karp, M. (1007) 84)

Shuttle vector
Epstein-Barr virus derived vector; Transcription; Mutagenesis; (Human embryonic kidney cell) (Palombo, F. (1009) 251)

Sialic acid
Lysosomal membrane; Cystine efflux; Stearylamine; (Rat liver) (Jonas, A.J. (984) 257)

Carbohydrate structure; Isoelectric point; Transferrin; (Human) (Petrén, S. (994) 161)

Sialic acid motion
Hemin; Erythrocyte membrane; ESR; Membrane protein skeletal network; Protein–carbohydrate interaction (Wyse, J.W. (979) 121)

Sialidase
Newcastle disease virus; Hemagglutinin-neuraminidase; Protein M (García-Sastre, A. (999) 171)

Sialyllactotetraosylceramide
Ganglioside; Protein bound sialic acid; Dendritic arborization; Synaptogenesis; (Human) (Svennerholm, L. (1005) 109)

Sialyl receptor
Linoleic acid; Diet; (Rat platelet) (Bolton-Smith, C. (1005) 183)

Sickle cell
Protein kinase C; Subcellular distribution; Erythrocyte (Apovo, M. (984) 26)

Sickle red cell
Water exchange; NMR (Fung, L.W.-M. (982) 167)

Sickling-unsickling cycle
Charybdotoxin; Inhibition; Potassium ion efflux; Calcium activated potassium efflux; (Human sickle red blood cell) (Ohnishi, S.T. (1010) 199)

Side chain
Polypeptide; Harmonic force constant (Balázs, A. (998) 215)

Sidedness
Phosphate transport protein; Sulfhydryl reagent; Substrate binding site; (Mitochondria); (Rat heart) (Ligeti, E. (973) 170)

Signal sequence
PhoE, export; Charge distribution; (*E. coli*) (Bosch, D. (979) 69)

Nuclear location signal; Nuclear protein localization; Nuclear pore; Active transport (Roberts, B. (1008) 263)

Signal transduction
Sphingosine; Sphingolipid; Protein kinase C; Phorbol ester (Merrill, Jr., A.H. (1010) 131)

Platelet; Protein kinase C; Sphingosine; (Human) (Krishnamurthi, S. (1010) 258)

Phenylarsine oxide; Monensin; Glucose transport; Insulin processing; (Rat adipocyte) (Douen, A.G. (1010) 363)

Plasminogen activator; intracellular cyclic AMP; Endothelial secretion; Inhibitor; (Human umbilical cord cell) (Francis, Jr, R.B. (1012) 207)

Silver ion effect
Calcium ion release; Sarcoplasmic reticulum; (Rabbit skeletal muscle) (Moutin, M.-J. (984) 289)

Simvastatin
Acyl-CoA:cholesterol acyltransferase; Cholesterol esterification; MHG-CoA reductase inhibitor; (Rabbit) (Ishida, F. (1004) 117)

Sindbis virus
CHO cell mutant; Phosphatidylserine; Phosphatidylethanolamine; Membrane fusion; Membrane biogenesis (Kuge, O. (986) 61)

Single bilayer vesicle
Photolabeling; Hydrophobic core; Depth dependent probe; 9-Diazofluorene-2-butyric acid (Lala, A.K. (978) 333)

Single cell rotation
In vitro fertilization; Fertilization; Microvilli; Membrane capacity; Membrane resistivity; Electrorotation; (Zona pellucida) (Arnold, W.M. (979) 142)

Single-channel behavior
Peptaibol; Trichorzianin analog; Amino alcohol; Lipid bilayer; Voltage-dependent conductance (Duclohier, H. (987) 133)

Single-channel conductance
Des(ethanolamine)-taurine^{16}-gramicidin A; Gramicidin A, [Tau^{16}]-; Ion channel; Planar membrane (Roeske, R.W. (982) 223)

Potassium ion channel; (Chicken myoblast); (Chicken myotube) (Zemková, H. (986) 146)

Channel selectivity; SITS; Membrane potential; Chloride channel; (*Drosophila*) (Yamamoto, D. (986) 187)

Single-channel current
Hemolysin; Ion channel; Current-voltage characteristic; Phospholipid bilayer; Selectivity; pH dependence; (*E. coli*) (Ropele, M. (985) 9)

Single-channel measurement
Peroxisomal membrane; Conductance channel; Porin; Permeability (Lemmens, M. (984) 351)

Single crystal
Photosynthetic bacteria; Reaction center; Carotenoid; Triplet state; (*Rb. sphaeroides* 2.4.1) (Taremi, S.S. (973) 86)

Single muscle fiber
Parvalbumin; (*X. laevis*) (Simonides, W.S. (998) 137)

Single site catalysis
ATPase, F_1-; Beta subunit; Chemical modification; 2-Azido-ATP; (*E. coli*) (Bragg, P.D. (974) 24)

Single strand breaks
Singlet molecular oxygen; Plasmid DNA; Bacteriophage DNA; DNA; Transforming activity; (*E. coli*) (Di Mascio, P. (1007) 151)

Singlet molecular oxygen
Single strand breaks; Plasmid DNA; Bacteriophage DNA; DNA; Transforming activity; (*E. coli*) (Di Mascio, P. (1007) 151)

Singlet oxygen
Anthracycline; Triplet state; Flash photolysis; ESR (Andreoni, A. (990) 190)

Single turnover flash
Optical cross section; Poisson distribution; Trap; Reaction center; Quantum requirement; Energy transfer; Fluorescence induction; Antenna, light-harvesting; Pigment protein (Mauzerall, D. (974) 119)

Sinusoidal membrane vesicle
Organic anion binding; Rose bengal; Fluorescence probe; Canalicular membrane vesicle; (Rat liver) (Yachi, K. (978) 1)

Sipunculid
NADH–cytochrome-b_5 reductase; Cytochrome b_5; (*P. gouldii*) (Bonomi, F. (999) 147)

Site directed inactivation
Glutathione *S*-transferase; 1-Chloro-2,4-dinitrobenzene; (Human) (Corrigall, A.V. (991) 399)

Site-directed mutagenesis
c-subunit; Mutagenesis; ATPase, F_1F_0-; (*E. coli*) (Fimmel, A.L. (978) 299)

c-Subunit; ATPase, F_1-F_0-; (*E. coli*) (Fimmel, A.L. (986) 257)

β-Globin gene; 5′-Splice site sequence; Quantification analysis; (Rabbit) (Iida, Y. (1007) 270)

Site-specific mutation
Aspartate transcarbamylase; Equilibrium isotope exchange kinetics (Hsuanyu, Y. (995) 54)

SITS
Channel selectivity; Membrane potential; Chloride channel; Single-channel conductance; (*Drosophila*) (Yamamoto, D. (986) 187)

Size distribution
Apolipoprotein A-II; Apolipoprotein A-I; (Human peripheral lymph) (Reichl, D. (1006) 246)

Skeletal muscle
Patch clamp; Potassium ion channel; Low-conductance state; (Mouse) (Weik, R. (983) 127)

Myosin filament; LC2; Myosian assembly (Chowrashi, P.K. (990) 216)

Cysteine proteinase, high molecular weight ATP activation; α_1-Macroglobulin; (Rat) (Dahlmann, B. (991) 253)

Sarcoplasmic reticulum; ATPase protein; Modification (Bailin, G. (995) 122)

Skinned muscle
Sarcoplasmic reticulum; Muscle culture; Calcium ion accumulation (Brik, H. (980) 273)

Slip
Oxidative phosphorylation; Leak; Membrane permeability; Stoichiometry change (Murphy, M.P. (977) 123)

Slow transition
Cooperativity; Spin label; Protein modification; ESR (Graupe, K. (999) 176)

Small angle neutron scattering
High pressure; Phosphatidylcholine; Phase transition (Winter, R. (982) 85)

Small angle X-ray diffraction
Gramicidin; Bilayer thickness; Hexagonal H_{II} phase formation; NMR, ^{31}P-; Lipid polymorphism (Killian, J.A. (978) 341)

Small bowel
Diamine oxidase; Glycosaminoglycan; (Rat) (D'Agostino, L. (993) 228)

Small intestinal mucosa
GDP-fucose: asialo $G_{M1}\alpha(1-2)$fucosyltransferase; Neutral glycolipid; (Mouse) (Umesaki, Y. (1001) 163)

Small intestine
Neutral glycolipid; Glycolipid structure; (Mouse) (Umesaki, Y. (1001) 157)

Smoking
Thromboxane; Prostacyclin; Prostaglandin; Eicosanoid excretion; (Human urine) (Barrow, S.E. (993) 121)

Smooth muscle
Acetylcholinesterase; (Rat bladder) (Skau, K.A. (995) 195)

Thin filament; (Chicken gizzard) (Lehman, W. (996) 57)

Tropomyosin; Caldesmon; Actomyosin; Platelet (Onji, T. (999) 248)

Smooth muscle cell
Collagen; Fibronectin; Heparin fragment; Biosynthesis; Modulation; (Pig) (Asselot-Chapel, C. (993) 240)

Snake venom
Potassium ion channel; Potassium ion transport; Calcium ion dependence; Erythrocyte (Alvarez, J. (980) 134)

Platelet aggregation; Triwaglerin; (*T. wagleri*) (Teng, C.-M. (992) 258)

S_1 nuclease
Mitochondrial myopathy; mitochondrial DNA; Polymerase chain reaction; Heteroduplex; Oligonucleotide primer (Tanaka-Yamamoto, T. (1009) 151)

Sodium
Pancreatic islet; Depolarization; Glucose; Tolbutamide; (Rat) (Ali, L. (1010) 283)

Sodium butyrate
Alkaline phosphatase; Hyperosmolality; Enzyme induction; (Cultured colon cancer cell) (Herz, F. (1013) 259)

Sodium–calcium ion exchange
Transverse tubule; Intracellular calcium regulation; (Frog skeletal muscle) (Donoso, P. (978) 8)

Synaptosome; Calcium regulation; (Rat brain) (Nachshen, D.A. (979) 305)

Membrane current; Stoichiometry; (Squid axon) (Caputo, C. (986) 250)

Sodium channel
Heart muscle; Patch clamp; Angiotensin II; Protein kinase C; Phosphorylation; (Guinea pig) (Nilius, B. (1014) 259)

Sodium chloride symport
Membrane potential; Ion exchanger; Chloride conductance; (*R. pipiens* stomach) (Holloman, T.L. (980) 367)

Sodium efflux
Inhibitin; Bumetanide; Ouabain; Promyelocyte; (Human erythrocyte) (Morgan, K. (979) 53)

Sodium fluoride
Polymorphonuclear leukocyte; Exocytosis, calcium ion dependent; ATP; (Rabbit) (Elferink, J.G.R. (1013) 247)

Sodium gradient
Tripeptide transport; Brush-border membrane vesicle; Papain; (Human jejunum) (Wilson, D. (986) 123)

Sodium ion
ATP synthesis; Hydrogen ion ATPase mutant; (*V. parahaemolyticus*) (Sakai, Y. (973) 450)

Sodium ion binding site
Taurine transporter; Tyrosine; Brush-border membrane; (Human placenta) (Kulanthaivel, P. (985) 139)

Sodium ion/calcium ion exchange
PAF; Isoproterenol; Platelet aggregation (Kester, M. (1014) 195)

Sodium ion channel
Myelinated nerve; Tetrodotoxin; Saxitoxin; (Frog) (Lönnendonker, U. (985) 153)

Myelinated nerve; Tetrodotoxin; Saxitoxin; Fluctuation analysis; (Frog) (Lönnendonker, U. (985) 161)

Cardiac muscle; Toxin; S-DPI 201-106; ATX II; Veratridine (Schreibmayer, W. (986) 172)

Sodium ion conductance
Platelet membrane potential; Platelet aggregation; Calcium ion influx; (Human blood) (Palés, J. (980) 33)

Sodium ion cotransport
Hexose transport; Phlorizin binding; (Opossum kidney cell line) (Van den Bosch, L. (979) 91)

Phosphate transport; Proximal tubule; *N*-Acetylimidazole; (OK cell) (Wuarin, F. (981) 185)

Brush-border membrane; Intestinal transport; Alanine transport; Proline transport; (*A. anguilla*) (Vilella, S. (984) 188)

Sodium ion coupled transport
Amino acid transport; Pancreatic acinar cell; Whole-cell recording (Von Blankenfeld, G. (980) 385)

Sodium ion dependence
Amino acid transport; Basic amino acid transport; Lysine; Alanine; System y^+; (Guinea pig placenta) (Wheeler, C.P.D. (978) 257)

Uridine transport; Brush-border membrane vesicle; Active nucleoside transport; (Rabbit intestine) (Jarvis, S.M. (979) 132)

Glycine transporter; Chloride dependence; Glycoprotein; Proteoliposome; (Rat) (Lopez-Corcuera, B. (983) 247)

D-Imino acid uptake; Electrogenic reaction; D-Proline; Hydroxy-D-proline; Luminal membrane vesicle; Proximal tubule; (Rabbit kidney) (Røigaard-Petersen, H. (984) 231)

Blood-brain barrier; Taurine; Amino acid transport; Brain capillary; (Rat) (Tayarani, I. (985) 168)

Sodium ion dependent transport
Polyamine; Putrescine; Polyamine transport; (Renal cell line) (De Smedt, H. (1012) 171)

Sodium ion depletion
Synaptosome; 5-Hydroxytryptamine release; (Rat brain) (Collard, K.J. (984) 319)

Sodium ion/D-glucose cotransporter
Proton/D-glucose cotransporter; Monoclonal antibody; Protein homology; Western blot analysis; (*Z. mays*); (Pig kidney) (Rausch, T. (985) 133)

Sodium ion, intracellular
Platelet aggregation; Ionophore; Calcium ion mobilization; pH, intracellular; (Bovine blood) (Kitagawa, S. (1011) 117)

Magnesium ion, intracellular; Calcium ion, intracellular; Reticulocyte; Erythrocyte; (Guinea pig blood) (Jelicks, L.A. (1012) 261)

Sodium ion omission
Rubidium-86 outflow; (Rat pancreatic islet cell) (Lebrun, P. (1011) 6)

Sodium ion/proton antiport
Bacterial growth; pH, alkaline; (*E. coli*) (McMorrow, I. (981) 21)

Sodium ion–proton exchange
Brush-border membrane vesicle; Conductive transport; (Human ileum) (Ramaswamy, K. (981) 193)

Calcium ion; Secretion; Thrombin; (Human platelet) (Alonso, M.T. (981) 367)

Reconstitution; Halotolerance; (*Dunaliella*) (Katz, A. (983) 9)

Insulin secretion; Nutrient stimulus; pH, cytosolic; (Human insulinoma cells, HIT) (Lynch, A.M. (1012) 166)

Sodium ion–proton exchanger
Amiloride; Choroid plexus; Cerebrospinal fluid; Sodium-22 uptake; Cell pH (Murphy, V.A. (979) 187)

ATP, extracellular; Calcium ion; Protein kinase C; (Bovine aortic endothelial cell) (Kitazono, T. (1013) 152)

Sodium ion transport
Cation transport; Quinine; Potassium ion transport; Calcium ion dependent transport; (Ehrlich cell) (Smith, T.C. (978) 169)

Membrane vesicle; (Lamb alveolar type II cell) (Butcher, P.A. (980) 50)

Gramicidin A; Open channel noise; Channel block; Proton transport (Heinemann, S.H. (987) 8)

Sodium poly(styrene sulfonate)
S-Adenosyl-L-methionine; Binding interaction; Ultrafiltration; Stacking (Barbato, G. (991) 324)

Sodium/potassium pump
Neutrophil; Membrane potential; Voltage gating; (Human blood) (Majander, A. (980) 139)

Compound 48/80; Calmodulin; Calcium pump; ATPase, Mg^{2+}- (Di Julio, D. (981) 337)

Sodium pump
ATPase, Na^+/K^+-; ATP analog; Kinetics (Rossi, R.C. (981) 85)

ATPase, Na^+/K^+-; Kinetics; ATP hydrolysis; Cation effect (Rossi, R.C. (981) 95)

ATPase, Na^+/K^+-; Kinetics; Potassium ion; Magnesium ion (Rossi, R.C. (981) 105)

Sodium–sodium ion exchange
Calcium–sodium ion exchange; Chelation; Calcium ion, intracellular; (Squid axon) (DiPolo, R. (978) 328)

Sodium-22 uptake
Amiloride; Sodium ion–proton exchanger; Choroid plexus; Cerebrospinal fluid; Cell pH (Murphy, V.A. (979) 187)

Solid phase synthesis
Circular dichroism; Chou-Fasman calculation; Neuropeptide Y; Raman spectroscopy; Vasoconstrictor activity (Balasubramaniam, A. (997) 176)

Solid state NMR
NMR, ^2H-; (−)-Δ^9-Tetrahydrocannabinol; Cannabinoid orientation; Model membrane; Drug–membrane interaction (Makriyannis, A. (986) 141)

Solubilization
5α-Reductase; Nuclear membrane; (Rat ventral prostate) (Enderle-Schmitt, U. (987) 21)

Solute accumulation control
Nitrate uptake; Pump and leak mechanism; Cyanate inhibition; (*C. caldarium*) (Fuggi, A. (974) 141)

Solution conformation
Leu-enkephalin; Energy calculation; NMR; Overhauser effect (Vesterman, B. (998) 204)

Solvation energy
Phosphate bond hydrolysis; Energy transduction; Water activity; Enzyme mechanism (De Meis, L. (973) 333)

Somatomedin
Insulin-like growth factor 1; Insulin-like growth factor 2; Receptor; Binding protein (Carlsson-Skwirut, C. (1011) 192)

Somatotropin
Microsomal membrane; Hormone receptor; Prolactin; Growth hormone; Cross-linking; (Rat hepatocyte) (Robetto, E.J. (1013) 223)

Sonicated vesicle
Cryo-electron microscopy; Membrane fusion; Vitrification; Lipidic particle (Frederik, P.M. (979) 275)

Sonolysis
Phospholipid; Ubiquinone; Ultrasonic irradiation; Vesicle; Free radical (Landi, L. (984) 21)

Sorbitol
Electrofusion; Hypo-osmolar medium; Osmotic pressure shock; Albumin; Divalent cation; Hybrid; (Mammalian cell) (Schmitt, J.J. (983) 42)

Sorbitol dehydrogenase
Sulfhydryl; Interaction; Nonpolar; *N*-Alkylmaleimide (Beier, K.H. (997) 236)

SOS response
Mutagenesis; In vitro replication; DNA; Ultraviolet irradiation; (*E. coli*); (ColE1 plasmid) (Casaregola, S. (1008) 45)

Southern blotting
DNA methylation; Gene expression; Restriction endonuclease; DNAase I hypersensitivity; Adenovirus type 12-transformed cell (Bartnik, E. (1007) 228)

SP-C
Lung surfactant; Nucleotide sequence; Amino acid sequence; Type II cell; Species homology; Surfactant protein (Fisher, J.H. (995) 225)

Species difference
Glutathione peroxidase; Gene expression; Selenium deficiency (Toyoda, H. (1008) 301)

Species homology
Lung surfactant; SP-C; Nucleotide sequence; Amino acid sequence; Type II cell; Surfactant protein (Fisher, J.H. (995) 225)

Specificity
Glucose; 6-Deoxy-D-glucose; Transport; (*T. brucei*) (Eisenthal, R. (985) 81)

Spectrin
Erythrocyte; Phenylhydrazine; Protein degradation; Proteolysis; (Human) (Arduini, A. (979) 1)

Protein 4.1; Actin; Hemin; Fluorescence; Circular dichroism (Solar, I. (983) 199)

Erythrocyte membrane; Cross bonding; Stiffening; (Human) (Fischer, T.M. (985) 218)

Rotational dynamics; Erythrocyte membrane; Cytoskeletal matrix; Time-resolved phosphorescence anisotropy; Phosphorescence (Learmonth, R.P. (987) 124)

Spectrophotometric assay
Metachromasy; Lipase; Lipolytic enzyme; Safranine (Rawyler, A. (1004) 337)

Spectrophotometry
Dielaidoylphosphatidylethanolamine; Phase behavior; Hexagonal H_{II} phase; *n*-Alkanol; NMR, ^{31}P- (Veiro, J.A. (979) 251)

Spectroscopy
Bacteriorhodopsin; Photocycle; Reconstitution; High pressure (Park, D.-G. (973) 19)

Cytochrome oxidase; Peroxy complex; Proteoliposome; Proton pumping; Conformational transition (Vygodina, T. (973) 390)

Electrochromic absorbance change; Membrane potential; ATP hydrolysis; (*Chlorella*) (Joliot, P. (975) 355)

Chlorophyll *a*; Resonance Raman; Hydrogen bonding; Intermolecular interaction; Photosynthesis (Krawczyk, S. (976) 140)

S-Adenosylhomocysteinase; Coenzyme; (Rat liver) (Gomi, T. (994) 172)

Textilotoxin; Presynaptic neurotoxin; Phospholipase; Protein; Secondary structure (Aird, S.D. (997) 219)

Superoxide dismutase; Cobalt derivative (Salvato, B. (998) 14)

Apolipoprotein A-II; Tyrosine residue; (Human plasma) (Massey, J.B. (999) 111)

Sperm adhesion
Antisticking factor; (Goat epididymal plasma) (Roy, N. (991) 114)

Spermatogenesis
Poly(ADP-ribosylation); Nuclear protein; (Rat) (Quesada, P. (1007) 167)

Spermidine
Polyamine; Spermine; (Red blood cell) (Elworthy, P. (993) 212)

Spermidine N^1-acetyltransferase
Colon cancer; Dimethylhydrazine; Corn oil; N^1-Acetylspermidine; (Rat colon) (Halline, A.G. (990) 280)

Dimethylhydrazine; Cancer; N^1-Acetylspermidine; Difluoromethylornithine; (Rat colon) (Halline, A.G. (992) 106)

Spermine
Peroxisome; Polyamine oxidase; N^1-Acetylspermine (Hayashi, H. (991) 310)

Polyamine; Spermidine; (Red blood cell) (Elworthy, P. (993) 212)

Spherulation
Spherulin 4; Plasma membrane protein; mRNA; Development; (*P. polycephalum*) (Savard, L. (1007) 264)

Spherulin 4
Spherulation; Plasma membrane protein; mRNA; Development; (*P. polycephalum*) (Savard, L. (1007) 264)

Sphingoid
Long chain base; Sphingosine; Stratum corneum; Sphingolipid; (Pig epidermis) (Wertz, P.W. (1002) 213)

Sphingolipid
Long chain base; Sphingoid; Sphingosine; Stratum corneum; (Pig epidermis) (Wertz, P.W. (1002) 213)

Sphingosine; Protein kinase C; Signal transduction; Phorbol ester (Merrill, Jr., A.H. (1010) 131)

Sphingomyelin
Reticuloendothelial system; Mononuclear phagocyte system; Liposome; Ganglioside; Drug delivery; (Mouse) (Allen, T.M. (981) 27)

Hemolysin; Invertebrate; Complement; Polymerization; Membrane lesion; (Sheep erythrocyte); (Earthworm) (Roch, P. (983) 193)

Sphingomyelinase; Cholesterol oxidase; Cholesterol transport; Cholesterol esterification; Cholesterol oxidation; (Human fibroblast) (Slotte, J.P. (985) 90)

Ceramide; Glucoceramide; Hep G_2 cell; Peritoneal macrophage; J774 macrophage; (Rat liver) (Stein, O. (1003) 175)

Sphingomyelinase
Sphingomyelin; Cholesterol oxidase; Cholesterol transport; Cholesterol esterification; Cholesterol oxidation; (Human fibroblast) (Slotte, J.P. (985) 90)

Lysosomal enzyme; Peritonitis; Purification (Quintern, L.E. (1003) 121)

Acid ceramidase; Farber disease; Glycosphingolipid hydrolase; Lysosomal enzyme; (Human spleen) (Al, B.J.M. (1004) 245)

Niemann-Pick type C fibroblast; Intracellular transport; Cholesterol oxidase; LDL; Cholesterol esterification (Slotte, J.P. (1005) 303)

Sphingosine
Long chain base; Sphingoid; Stratum corneum; Sphingolipid; (Pig epidermis) (Wertz, P.W. (1002) 213)

Sphingolipid; Protein kinase C; Signal transduction; Phorbol ester (Merrill, Jr., A.H. (1010) 131)

Signal transduction; Platelet; Protein kinase C; (Human) (Krishnamurthi, S. (1010) 258)

Spin label
Rotational diffusion; Membrane protein; ATPase, Na^+/K^+-; Saturation transfer ESR (Esmann, M. (978) 209)

ATPase, $(Ca^{2+} + Mg^{2+})$-; *N*-Cyclohexyl-*N'*-(4-dimethylamino-1-naphthyl)carbodiimide; Fluorescein isothiocyanate; Calcium binding site; (Rabbit skeletal muscle) (Munkonge, F. (979) 113)

Phosphatidylcholine; Planar multibilayer; ESR; Order parameter; Rotational dynamics (Korstanje, L.J. (980) 225)

Membrane fluidity; Palmitoylcarnitine; (Human erythrocyte) (Watanabe, H. (980) 315)

Polyene antibiotic; Amphotericin B; Bile salt; Deoxycholate; Polydispersity (Lamy-Freund, M.T. (981) 207)

Lipid bilayer; Interdigitated bilayer (Boggs, J.M. (981) 243)

Photosensitizer; Porphyrin; Liposome; Membrane–dye interaction; Fluorescence quenching (Gross, E. (983) 118)

Lipid lateral diffusion; Lipid–protein interaction; Myelin basic protein; ESR (Páli, T. (984) 128)

Prostasome; Phospholipid; Cholesterol; Fatty acid; ESR; (Human semen) (Arvidson, G. (984) 167)

Interdigitation; Lipid bilayer; Phase transition; Polymyxin B; Polymyxin B nonapeptide (Wang, H.-Y. (985) 182)

Interdigitation; Lipid bilayer; Phase transition; Acidic lipid; Polymyxin B; Polymyxin B nonapeptide (Boggs, J.M. (985) 199)

Alamethicin; Voltage-dependent channel; Membrane–peptide interaction; Thylakoid; ESR (Wille, B. (986) 47)

L-Carnitine; Palmitoylcarnitine; Membrane fluidity; Free fatty acid metabolism; Erythrocyte; (Human) (Kobayashi, A. (986) 83)

Glycosphingolipid; Ganglioside; Liposome; Freeze-etch; ESR (Mehlhorn, I.E. (986) 281)

Apocytochrome *c*; Cytochrome *c*; Lysozyme; Polylysine; Peripheral protein; ESR (Sankaram, M.B. (986) 315)

Lipid–protein interaction; Photosystem II; Saturation transfer ESR; ESR (Li, G. (987) 187)

AMP; ADP; ATP (Ubom, G.A. (997) 1)

Cooperativity; Slow transition; Protein modification; ESR (Graupe, K. (999) 176)

Spin lattice relaxation time
Manganese; Electron spin echo spectroscopy; Photosystem II; Oxygen evolution (Evelo, R.G. (973) 428)

Spin–spin interaction
Deuterated spin label; NAD^+ binding; NAD^+ spin label; Glyceraldehyde-3-phosphate dehydrogenase; Dehydrogenase mechanism (Wilder, R.T. (997) 65)

Spin transition
Hemoglobin; Intramolecular reaction; ESR; Temperature jump; Protein dynamics (Steinhoff, H.-J. (996) 49)

Spin trapping
Superoxide dismutase; Poly(ethylene glycol); Free radical; (Human neutrophils) (Pou, S. (991) 459)

ESR; Lipid derived radical; Liposome (Feix, J.B. (992) 230)

Phosphatidylcholine peroxidation; Calcium blocker inhibition; Stobadine inhibition; Nifedipine radical (Ondriaš, K. (1003) 238)

Splenocyte
Lipid peroxidation; DNA synthesis; Mitogenic response; Thymocyte; (Mouse) (Oarada, M. (1012) 156)

5'-Splice site sequence
β-Globin gene; Site-directed mutagenesis; Quantification analysis; (Rabbit) (Iida, Y. (1007) 270)

S4, protein
Amino acid sequence; Ribosomal protein S4; Protein primary structure; (Rat) (Devi, K.R.G. (1008) 258)

S100 protein
Circular dichroism, induced; Trifluoperazine fluorescence; Fluorescence, trifluoperazine; Calcium ion binding protein (Ogoma, Y. (997) 188)

Squalene
Cholestyramine; Lanosterol demethylation; Hydroxymethylglutaryl-CoA; Acyl-CoA : cholesterol acyltransferase; (Rat) (Strandberg, T.E. (1001) 150)

Squalene synthetase
Sterol regulation; Lipoprotein; Compactin; U18666A; (Hep G2) (Cohen, L.H. (1002) 69)

Squamous cell carcinoma
Cellular retinol binding protein; Retinol; (Human) (Wahlberg, P. (1010) 287)

Squeeze-out
Dipalmitoylphosphatidylcholine; Phospholipid; Gel-to-liquid crystal transformation; Surface activity; Fluorescence polarization (Egberts, J. (1002) 109)

S state
Luminescence; Q_A acceptor; Photosystem II (Sundblad, L.-G. (973) 47)

Calcium extraction; Oxygen evolution; Thermoluminescence; ESR; Photosynthesis (Ono, T.-a. (973) 443)

Oxygen evolution; Hydroxylamine; Greening; Chloroplast (Franck, F. (977) 215)

S-state system
Oxygen evolving complex; Stabilizer; Filamentous cyanobacterium; Photosynthesis (Bader, K.P. (975) 399)

Stabilizer
S-state system; Oxygen evolving complex; Filamentous cyanobacterium; Photosynthesis (Bader, K.P. (975) 399)

Stacking
S-Adenosyl-L-methionine; Sodium poly(styrene sulfonate); Binding interaction; Ultrafiltration (Barbato, G. (991) 324)

***Staphylococcus aureus* proteinase**
HMG protein; Domain structure; Limited proteolysis; Endoproteinase GluC (Abdul-Razzak, K.K. (996) 125)

Starch degradation
Alga; Chloroplast; Glycerol-3-phosphate dehydrogenase; Redox balance (Klöck, G. (991) 347)

Starch hydrolysis
Gene expression; Glucoamylase; Glycoprotein; Protein secretion; (Budding yeast) (Vanoni, M. (1008) 168)

Starfish embryo
RNA synthesis; Development; Formycin inhibition; Blastulation; (*A. pectinifera*) (Isomura, H. (1007) 343)

State transition
Fluorescence; Linear dichroism; Photosynthesis; Phycobilisome; (*P. cruentum*); (*Synechococcus* sp. PCC 6301) (Brimble, S. (973) 315)

Cyanobacterium; Phycobilisome mutant; (*Synechococcus* sp. PCC 7002) (Bruce, D. (974) 66)

Chlorophyll fluorescence; High energy state; Non-photochemical quenching; Photoinhibition; Relaxation kinetics (Hodges, M. (974) 289)

Protein phosphorylation; Thylakoid; Prochlorophyte; Membrane protein; (*P. hollandica*) (Van der Staay, G.W.M. (975) 317)

Steady state kinetics
Ubiquinol : cytochrome *c* oxidoreductase; Core II protein, 40 kDa; Subunit VI, 17 kDa; Gene deletion; (HR2 wild type yeast) (Schoppink, P.J. (974) 192)

Stearylamine
Lysosomal membrane; Cystine efflux; Sialic acid; (Rat liver) (Jonas, A.J. (984) 257)

Stefin
Cystatin; Cysteine proteinase; Cancer; (Human liver); (Human sarcoma) (Lah, T.T. (993) 63)

Stereochemistry
7-*cis*-11-*trans*-Lipoxin A_4; Chemical synthesis; Biological activity (Nicolaou, K.C. (1003) 44)

Stereospecificity
NAD(P)H oxidation; 4-Aminobenzoate hydroxylase; (*A. bisporus*) (Tsuji, H. (991) 380)

Glycerol dehydrogenase; Metalloprotein; Fluorescence (Spencer, P. (994) 270)

NMR; Glyceraldehyde-3-phosphate dehydrogenase; (Spinach chloroplast) (Levy, L.M. (997) 331)

Stern model
Aluminum adsorption; Aluminum toxicity (Akeson, M.A. (986) 33)

Steroid, Δ^{16}-C_{19}
5α-Reduced-C_{21} steroid; Substrate specificity; Cytochrome *P*-450; Steroid biosynthesis; (Pig testis microsomes) (Kohara, H. (991) 141)

Steroid biosynthesis
Steroid, Δ^{16}-C_{19}; 5α-Reduced-C_{21} steroid; Substrate specificity; Cytochrome *P*-450; (Pig testis microsomes) (Kohara, H. (991) 141)

Steroid esterification
Dehydroepiandrosterone; Steroid hormone; HDL_3; Lipoprotein (Leszczynski, D.E. (1014) 90)

Steroid hormone
Dehydroepiandrosterone; Steroid esterification; HDL_3; Lipoprotein (Leszczynski, D.E. (1014) 90)

Steroidogenesis
Cytochrome *P*-$450_{11\beta}$; Aldosterone synthesizing enzyme; Liposome; (Bovine adrenocortical mitochondria) (Ikushiro, S.-i. (984) 50)

Cytochrome *P*-450_{C21}; Cytochrome *P*-$450_{17\alpha,\text{lyase}}$; NADPH–cytochrome-*P*-450 reductase; Liposome (Kominami, S. (985) 293)

Steroid sulfatase
Arylsulfatase C; Monoclonal antibody; (Rat); (Human) (Kawano, J.-i. (997) 199)

Sterol
Fluorescent lipid; Fluorescent probe; Phospholipid; Membrane probe; Lateral diffusion; Lucifer yellow-lipid conjugates (Nothnagel, E.A. (980) 209)

Sterol binding
Cholesterol metabolism; Hepatic enzyme; (Rat liver microsome) (Suckling, K.E. (1002) 401)

Sterol binding protein
Phytosterol; Vitamin D-3; (*P. vulgaris*) (Vega, M.A. (1012) 10)

Sterol carrier protein 2
Nonspecific lipid transfer protein; Subcellular distribution; Peroxisome; (Rat liver); (Rat adrenal gland) (Van Amerongen, A. (1001) 243)

Nonspecific lipid transfer protein; Cholesterol; Oxysterol derivative; Lipid monolayer (Van Amerongen, A. (1004) 36)

Sterol mutant
6α-Hydroxylsterol; 5-Desaturation; (*C. albicans*) (Shimokawa, O. (1003) 15)

Sterol regulation
Squalene synthetase; Lipoprotein; Compactin; U18666A; (Hep G2) (Cohen, L.H. (1002) 69)

Sterol synthesis
15-Ketosterol; pH; (Rat liver) (Stephens, T.W. (1001) 127)

Stiffening
Erythrocyte membrane; Spectrin; Cross bonding; (Human) (Fischer, T.M. (985) 218)

Stigmatellin
Cytochrome bc_1 complex; Cytochrome b_6f complex; Quinol oxidation; Inhibition; (*S. aurantiaca*) (Nitschke, W. (974) 223)

Stimulus-response coupling
Hydroxyicosatetraenoic acid; Enantiomer; 12-Lipoxygenase (Turk, J. (1001) 16)

Stimulus secretion
Adrenal medulla; Exocytosis; Chromaffin granule; Protein phosphorylation; Protein kinase C (Brocklehurst, K.W. (979) 157)

Stobadine inhibition
Phosphatidylcholine peroxidation; Spin trapping; Calcium blocker inhibition; Nifedipine radical (Ondriaš, K. (1003) 238)

Stochastic process
Thermodynamics; Photosynthetic electron transport; Bacterial reaction center (Lavergne, J. (975) 346)

Stoichiometry
Sodium-calcium ion exchange; Membrane current; (Squid axon) (Caputo, C. (986) 250)

Stoichiometry change
Oxidative phosphorylation; Slip; Leak; Membrane permeability (Murphy, M.P. (977) 123)

Stopped flow
Tocopheroxyl radical; Ascorbic acid; Reaction rate (Mukai, K. (991) 276)

Stopped flow method
Valyl-tRNA synthetase; Valine-tRNA ligase; 3′-*O*-Anthraniloyl-ATP; Enzyme-substrate binding; Fluorometric titration; Fast kinetics; (*B. stearothermophilus*) (Kakitani, M. (996) 76)

Storage dependence
Electrofusion; Membrane fusion; Erythrocyte (Sowers, A.E. (985) 334)

Storage protein gene
Development; DNA binding protein; *Trans*-acting factor; DNA-protein complex; (*S. peregrina*) (Kim, J.W. (1008) 79)

β-Strand
NMR, two dimensional; Model peptide; Dynorphin; Amphiphilic structure (Vaughn, Jr., J.B. (999) 135)

Stratum corneum
Long chain base; Sphingoid; Sphingosine; Sphingolipid; (Pig epidermis) (Wertz, P.W. (1002) 213)

Streptolysin O
Leukemia cell; Inositol phosphate; Inositol phospholipid turnover; Antigen stimulation; GTPγS; (Permeabilized RBL-2H3 cell) (Ali, H. (1010) 88)

Stress induced gene expression
Heat shock protein mRNA; Metallothionein mRNA; Heavy metal; Gene expression; mRNA; (Fish cell lines) (Misra, S. (1007) 325)

Stromelysin
Metalloproteinase; Collagenase; (Rat mammary carcinoma) (Nethery, A. (994) 149)

Structure–activity relationship
Epinephrine-induced aggregation; ADP-effected aggregation; Platelet aggregation inhibitor; Carbamoylpiperidinoalkane; *N*-Alkylnipecotoylpiperazine; (Human blood) (Petrusewicz, J. (983) 161)

Carbamoylpiperidinoalkane; *N*-Alkylnipecotoylpiperazine; Platelet aggregation inhibitor; Serotonin release inhibitor; Platelet factor 4 release inhibitor; Dense body; α-Granule; Platelet plasma membrane (Dillingham, E.O. (990) 128)

Cerebroside; Fruiting inducing activity; (*L. edodes*) (Kawai, G. (1001) 185)

Platelet aggregation; Calcium ion mobilization; Phenol derivative; Fluorescence; (Bovine platelet) (Kitagawa, S. (1011) 52)

Structure determination
Phosphonoglycosphingolipid; Phosphonolipid; *N*-Methylaminoethylphosphonic acid; Trigalactosylceramide; FAB-MS; (*T. cornutus*) (Hayashi, A. (1006) 89)

Structure–function correlation
Acetylcholine receptor; Neurotoxin binding site; Thermal denaturation; Cholesterol; Membrane fluidity (Artigues, A. (985) 325)

Structure–function relation
α-Chymotrypsin; Inorganic salt (Przybycien, T.M. (995) 231)

Structure–function relationship
Apolipoprotein A-II; Tryptic hydrolysis; (Human plasma) (Massey, J.B. (999) 121)

Structure prediction
Myosin; Myosin light chain; Protein–protein interaction (Béchet, J.-J. (996) 199)

Subcellular distribution
Protein kinase C; Sickle cell; Erythrocyte (Apovo, M. (984) 26)

Nonspecific lipid transfer protein; Sterol carrier protein 2; Peroxisome; (Rat liver); (Rat adrenal gland) (Van Amerongen, A. (1001) 243)

Fatty acid binding protein; ELISA; Mitochondrion; Nucleus; (Bovine heart) (Börchers, T. (1002) 54)

Phospholipase A_2; Phospholipase C; Arachidonic acid; (Human lung); (Rat lung) (Yeats, D.A. (1003) 189)

Submembrane structure
Diffusion barrier; Free sugar accumulation (Widdas, W.F. (979) 221)

Submitochondrial particle
NADH : ubiquinone oxidoreductase; Proton transfer; Dicyclohexylcarbodiimide; Membrane potential; (Bovine heart) (Vuokila, P.T. (974) 219)

Substrate activation
Pancreatic elastase; Elastase substrate; Elastase inhibitor; Substrate inhibition; (Rat); (Pig) (Bieth, J.G. (994) 64)

Substrate analog
Glucose-6-phosphate dehydrogenase; Enzyme kinetics (Birke, S. (999) 243)

Substrate binding
Lactoperoxidase; Aromatic substrate; NMR; Optical difference spectroscopy (Modi, S. (996) 214)

Substrate binding order
Mevalonate-5-diphosphate decarboxylase; (Chicken liver) (Jabalquinto, A.M. (996) 257)

Substrate binding site
Phosphate transport protein; Sulfhydryl reagent; Sidedness; (Mitochondria); (Rat heart) (Ligeti, E. (973) 170)

Substrate inactivation
β-Hydroxy-β-methylglutaryl-CoA reductase; Active site label; Mevinolin (Dugan, R.E. (998) 91)

Substrate inhibition
Dicarboxylate carrier mechanism; Enzyme kinetics; Liposome; Mitochondrion; (Rat liver) (Indiveri, C. (977) 194)

Pancreatic elastase; Elastase substrate; Elastase inhibitor; Substrate activation; (Rat); (Pig) (Bieth, J.G. (994) 64)

Dicarboxylic acid; Fatty acyl-CoA oxidase; Peroxisome; Beta oxidation (Poosch, M.S. (1006) 291)

Substrate specificity
Endopeptidase; Active site; Histidine; (Maize root) (Batt, R. (990) 109)

Epidermal carboxypeptidase; Carboxypeptidase; Peptide hydrolysis; (Rat); (Epidermal cell) (Kikuchi, M. (991) 19)

Steroid, Δ^{16}-C_{19}; 5α-Reduced-C_{21} steroid; Cytochrome *P*-450; Steroid biosynthesis; (Pig testis microsomes) (Kohara, H. (991) 141)

Aspartic proteinase; Milk-clotting enzyme; κ-Casein; Glycomacropeptide (Drøhse, H.B. (995) 221)

C1 esterase; Acrosin; *p*-Nitrate (Skoog, M.T. (996) 89)

Isopenicillin N epimerase (Usui, S. (999) 78)

Phospholipase A_2; Interfacial catalysis; Nonspecific inhibitor; Bilayer; Membrane fluidity (Jain, M.K. (1003) 91)

Casein kinase; (Maize); (Rat liver) (Dobrowolska, G. (1010) 274)

AMP activated protein kinase; Protein kinase; Glycogen synthase; Phosphorylase kinase; Phosphorylation site; Consensus sequence (Carling, D. (1012) 81)

Subtilisin
SDS-polyacrylamide gel electrophoresis; Protein folding; Autolysis (Owers Narhi, L. (990) 144)

***c*-Subunit**
Site-directed mutagenesis; ATPase, F_1-F_0-; (*E. coli*) (Fimmel, A.L. (986) 257)

Subunit assembly
Hemoglobin A; Met-azido derivative; NMR, H^+ (Yamamoto, Y. (996) 187)

Subunit coupling
β-Glucosidase; Gaucher disease; Lysosome; Irradiation; Radiation inactivation; Triton X-100 (Maret, A. (996) 254)

δ-Subunit deficient chloroplast coupling factor
Chloroplast coupling factor 1; Thylakoid; Chloroplast coupling factor binding; ATP synthesis (Xiao, J. (976) 203)

Subunit labeling
Chloroplast ATPase, H^+-; Photophosphorylation; Pyridoxalphosphate inhibition; CF_1; ATPase, H^+-; ([^{3}H]PLP) (Bickel-Sandkötter, S. (974) 30)

Subunit structure
Lysosome; ATPase, H^+-; Vacuolar ATPase (Moriyama, Y. (980) 241)

Deoxyribonuclease; Isozyme; Isoelectric focusing; (Spleen lysosome); (Liver lysosome) (Liao, T.-H. (1007) 15)

Subunit VI, 17 kDa
Ubiquinol:cytochrome *c* oxidoreductase; Steady state kinetics; Core II protein, 40 kDa; Gene deletion; (HR2 wild type yeast) (Schoppink, P.J. (974) 192)

Succinate uptake
Dicarboxylate transport; Cotransport; Placental epithelium; (Human) (Ogin, C. (980) 248)

Succinic anhydride
Cytochrome *P*-450$_{SCC}$; Lysine; Chemical modification (Adamovich, T.B. (996) 247)

Succinic semialdehyde dehydrogenase
(*K. pneumoniae*) (Sanchez, M. (990) 225)

Succinylacetone
Fanconi syndrome; Renal development; Membrane fluidity; Tyrosinemia (Roth, K.S. (987) 38)

Succinyl-CoA
3-Hydroxy-3-methylglutarate; Coenzyme A transferase; (Rat-liver mitochondria) (Francesconi, M.A. (999) 163)

Succinylpurine
Adenylosuccinase; Adenylosuccinate lyase; Purine metabolism; Mental retardation; Autism; (Human) (Barshop, B.A. (999) 19)

Sucrose carrier
Sucrose transport; Plant plasmalemma; Plant plasma membrane; Protein, 42 kDa; Differential affinity labeling; (Sugar beet) (Gallet, O. (978) 56)

Sucrose transport; Plant plasmalemma; Plant plasma membrane; Polyclonal antibody; Protein, 42 kDa; (Sugar beet) (Lemoine, R. (978) 65)

Sucrose effect
Photosystem II; O_2 evolution; H_2O_2 formation; Catalase effect; (Spinach) (Wydrzynski, T. (973) 23)

Sucrose ester
Amphotericin B; Antifungal activity (Brajtburg, J. (985) 307)

Sucrose synthesis
Pyrophosphate; Fructose 2,6-bisphosphate; Fluoride; Photosynthesis; (Spinach) (Quick, P. (973) 263)

Sucrose transport
Sucrose carrier; Plant plasmalemma; Plant plasma membrane; Protein, 42 kDa; Differential affinity labeling; (Sugar beet) (Gallet, O. (978) 56)

Sucrose carrier; Plant plasmalemma; Plant plasma membrane; Polyclonal antibody; Protein, 42 kDa; (Sugar beet) (Lemoine, R. (978) 65)

Sugar binding
Fluorescence spectroscopy; Discoidin I; Calcium binding; Sugar binding site; (*D. discoideum*) (Valencia, A. (990) 93)

Sugar binding site
Fluorescence spectroscopy; Discoidin I; Calcium binding; Sugar binding; (*D. discoideum*) (Valencia, A. (990) 93)

Sugar chain, N-linked
Glucoamylase; Endo-β-*N*-acetylglucosaminidase; (*R. niveus*) (Takegawa, K. (990) 98)

Sugar–lipid interaction
Phase diagram; DSC (Hentschel, M. (980) 169)

Sugar moiety
DNA polymerase; Nucleotide analog; Chain terminator; DNA synthesis inhibition; (*S. acidocaldarius*); (Archaebacterium) (Chinchaladze, D.Z. (1008) 113)

Sugar phosphorylation
Polyphosphate utilization; 2-Deoxy-D-glucose transport; ATP; (*K. marxianus*) (Schuddemat, J. (986) 290)

Sugar transport
Lysolipid; Lipid–protein interaction; Erythrocyte membrane; (Human) (Naderi, S. (985) 173)

Sulfate
Anion transport; Contraluminal membrane; Molecular charge distribution; Hydrophobicity (Fritzsch, G. (978) 249)

Band 3 protein; Bisulfite; Bicarbonate; Colloid osmotic lysis; Anion transport; (Human erythrocyte) (Labotka, R.J. (981) 358)

Sulfatide
Lipid phase diagram; Interdigitated phase; Phosphatidylcholine; Cerebroside; Calorimetry (Gardam, M. (980) 319)

Sulfatide uptake
Fluorescent sulfatide; Pyrene cerebroside sulfate; Metachromatic leukodystrophy (Viani, P. (1002) 20)

Sulfation
Gastric mucin; Secretion; (Rat) (Van Beurden-Lamers, W.M.O. (990) 232)

Aryl sulfotransferase; Oxime; Aromatic hydroxylamine (Mangold, J.B. (991) 453)

Endopeptidase 24.11; Gastrin; Cholecystokinin; Metabolism (Pauwels, S. (996) 82)

Sulfhydryl
Sorbitol dehydrogenase; Interaction; Nonpolar; *N*-Alkylmaleimide (Beier, K.H. (997) 236)

Sulfhydryl group
Sulfobromophthalein; Plasma membrane; Electrogenic transport; (Rat liver) (Passamonti, S. (979) 294)

Glycolipid transfer protein; Intramolecular disulfide bond; Disulfide bond; Oligomerization; Cupric ion; (Pig brain) (Abe, A. (985) 38)

Glycolipid transfer protein; Intramolecular disulfide bond; Disulfide bond (Abe, A. (985) 45)

β-Tubulin; Antimitotic drug; 2,4-Dichlorobenzyl thiocyanate; Alkylation (Bai, R.-l. (994) 12)

Acetyl-CoA hydrolase; Acetyl-CoA; Chemical modification; (Rat liver) (Nakanishi, Y. (996) 209)

Sulfhydryl group, essential
Creatine kinase; Chemical modification; Mercurial (Wu, H. (997) 78)

Sulfhydryl location
α-Crystallin; Phosphorylation; Tertiary structure; Tryptophan environment; Electron microscopy; Light scattering (Augusteyn, R.C. (999) 293)

Sulfhydryl oxidation
Macrophage recognition; Periodate oxidation; Disulfide formation; Diamide; (Erythrocyte membrane) (Beppu, M. (979) 35)

Heavy metal cation; Divalent cation; Granule secretion; Digitonin; Calcium ion; Polymorphonuclear leukocyte; (Human neutrophil) (Sandborg, R.R. (1010) 330)

Sulfhydryl reagent
Phosphate transport protein; Sidedness; Substrate binding site; (Mitochondria); (Rat heart) (Ligeti, E. (973) 170)

Erythrocyte membrane; Band 3 protein; Affinity chromatography; (Human) (Werner, P.K. (982) 309)

Hexaprenyl-diphosphate synthase; Prenyltransferase; Arginine specific reagent; Enzyme inactivation; Enzyme protection; (*M. luteus* B-P 26) (Yoshida, I. (995) 138)

Sulfide
Electron transport; Cytochrome; B-700; (*O. Limnetica*) (Slooten, L. (973) 272)

Sulfite
CF_1; ATPase activation; Thylakoid; (Kinetics) (Larson, E.M. (973) 67)

CF_1; Thylakoid; Chloroplast ATPase; Activation; Bound ADP (Larson, E.M. (973) 78)

Mitochondrion; Chloroplast; Sulfolipid biosynthesis; *S*-Sulfocysteine; Cysteine sulfinic acid; (*Euglena*) (Saidha, T. (1001) 268)

Sulfobromophthalein
Plasma membrane; Sulfhydryl group; Electrogenic transport; (Rat liver) (Passamonti, S. (979) 294)

Bilitranslocase; Electrogenic transport; Plasma membrane; (Rat liver) (Miccio, M. (981) 115)

***S*-Sulfocysteine**
Mitochondrion; Chloroplast; Sulfolipid biosynthesis; Sulfite; Cysteine sulfinic acid; (*Euglena*) (Saidha, T. (1001) 268)

Sulfolipid biosynthesis
Mitochondrion; Chloroplast; Sulfite; *S*-Sulfocysteine; Cysteine sulfinic acid; (*Euglena*) (Saidha, T. (1001) 268)

Sulfonamide derivative
Calmodulin antagonist; Membrane permeability; ATP, external; (CHO cell) (Kitagawa, T. (987) 235)

Sulfur–aromatic interaction
Amide–aromatic interaction; Protein side chain contact; Molecular orbital calculation; π Hydrogen bond (Cheney, B.V. (996) 116)

Sulfur:ferric ion oxidoreductase
Sulfur oxidation; Leaching, bacterial; (*T. ferrooxidans*) (Sugio, T. (973) 250)

Sulfur imino acid
Lanthionine ketimine; Fluorometry; (Brain) (Ricci, G. (990) 211)

Sulfur oxidation
Sulfur:ferric ion oxidoreductase; Leaching, bacterial; (*T. ferrooxidans*) (Sugio, T. (973) 250)

Phototrophic bacterium; Electron transport (Brune, D.C. (975) 189)

Supercomplex
Photosynthetic bacteria; Electron transfer; Reaction center; Cytochrome; (*Rb. sphaeroides*) (Joliot, P. (975) 336)

Superexchange mechanism
Reaction center; Photosynthesis; Charge separation; Quantum mechanics; Franck-Condon factor (Bixon, M. (977) 273)

Superfamily
cDNA sequence; β-Galactoside binding; Lectin; IgE binding protein; (Human) (Hirabayashi, J. (1008) 85)

Superhyperfine structure
Liposome; Cat1; Oxygen concentration; ESR (Chan, H.-C. (1014) 141)

Superoxide
Human lens; γ-Crystallin; Oxidation; Hydrogen peroxide; Cataract; Photosensitizer; *N*-Formylkynurenine (Andley, U.P. (997) 284)

Superoxide anion
Horseradish peroxidase; Pulse radiolysis (Shimizu, N. (995) 133)

Superoxide dismutase
Liposome; Electron spin resonance; Protein–membrane interaction; (Human erythrocyte) (Marcocci, L. (979) 99)

Poly(ethylene glycol); Free radical; Spin trapping; (Human neutrophils) (Pou, S. (991) 459)

Manganese enzyme; Precursor enzyme; Posttranslational processing; cDNA (Wispe, J.R. (994) 30)

Cytochrome *c*; Luminol; Chemiluminescence; Xanthine oxidase (Radi, R.A. (994) 89)

Cobalt derivative; Spectroscopy (Salvato, B. (998) 14)

Superoxide dismutase deficiency
Polyunsaturated fatty acid; Autoxidation; (*S. cerevisiae*) (Biliński, T. (1001) 102)

Superoxide generation
Neutrophil; NADPH oxidase; Membrane structure; Cytoskeleton; Membrane bound enzyme; Oxygen burst (Quinn, M.T. (987) 83)

Supported bilayer
Biosensor; Langmuir-Blodgett film; Protein adsorption; Lipid bilayer; Microelectrophoresis (Stelzle, M. (981) 135)

Supramolecular assembly
Fucoxanthin-chlorophyll *a*/*c* protein; Chlorophyll *c*; Decyl sucrose; Light-harvesting pigment; Energy transfer; (Brown alga); (*D. dichotoma*) (Katoh, T. (976) 233)

Surface activity
Dipalmitoylphosphatidylcholine; Phospholipid; Squeeze-out; Gel-to-liquid crystal transformation; Fluorescence polarization (Egberts, J. (1002) 109)

Surface capacitance
Anesthesia theory; Phospholipid vesicle; Phase transition; Interface (Yoshida, T. (984) 253)

Surface charge
Colloid uptake; Poly(DL-lysine)polymerization; Tumor cell; (P388 ascites leukemia cell) (Anghileri, L.J. (982) 307)

Phase partition; Poly(ethylene glycol); Dextran; Lipid asymmetry (Tilcock, C. (986) 167)

Local anesthetic; Phase transition; Partition coefficient; Dimyristoylphosphatidic acid; Phospholipid vesicle (Kaminoh, Y. (987) 63)

Surface hydrophobicity
Bean storage protein; Circular dichroism; Derivative spectroscopy; Fluorescence; Proteolysis; Quenching (Deshpande, S.S. (998) 179)

Hydrophobicity; Chemiluminescence; (Human polymorphonuclear leukocytes); (*E. coli*) (Steadman, R. (1013) 21)

Surface immunoglobulin
Lymphocyte, B; G protein; Transmembrane signalling; Phospholipase C; Inositol phospholipid (Monroe, J.G. (1013) 273)

Surface labeling
Fibrinogen; Calcium binding; [A]α chain; Crosslinking (Apap-Bologna, A. (995) 70)

Surface potential
Neomycin; Zeta potential; Phosphatidylinositol 4,5-bisphosphate; Second messenger (Gabev, E. (979) 105)

Ganglioside; Phospholipid; Monolayer; Water/lipid interface; Lipid/air interface; Electric dipole moment (Beitinger, H. (984) 293)

Surface property
Lipoprotein; Apolipoprotein (Ibdah, J.A. (1004) 300)

Surface tension
Pulmonary surfactant; Surfactant associated protein; Phospholipid; Lipid–protein interaction (Chung, J. (1002) 348)

Surfactan
Apolipoprotein; Phosphatidylcholine turnover; (Rabbit) (Baritussio, A. (1006) 19)

Surfactant
Gramicidin S; Melittin; Membrane permeability; Phospholipid release; Cell shape (Katsu, T. (983) 135)

Protein kinase C; Ethoxylated alcohol (Abidi, T.F. (992) 362)

Glutathione reductase activity; Reverse micellar enzymology; Nonpolar solvent (Kumar, A. (996) 1)

Oligomeric enzyme; γ-Glutamyltransferase; Reversed micelle; Organic solvent (Kabanov, A.V. (996) 147)

Calmodulin; Phosphodiesterase; Amphiphile (Isomaa, B. (998) 131)

Surfactant apoprotein
Alveolar permeability; Lung tissue; (Rabbit) (Snyder, J.M. (1002) 1)

Surfactant associated protein
Pulmonary surfactant; Phospholipid; Lipid–protein interaction; Surface tension (Chung, J. (1002) 348)

Pulmonary surfactant; Amino acid sequence; (Bovine lung) (Yu, S.-H. (1005) 93)

Surfactant micelle
Anesthesia mechanism; Partition coefficient; Binding mode; Lipid/water interface; Volatile anesthetic (Yoshida, T. (985) 331)

Surfactant peptide
Type II cell; Phospholipid uptake; (Rat) (Rice, W.R. (1006) 237)

Surfactant protein
Lung surfactant; SP-C; Nucleotide sequence; Amino acid sequence; Type II cell; Species homology (Fisher, J.H. (995) 225)

Swainsonine
Gonadotroph primary culture; Lutropin biosynthesis; Castanospermine; Oligosaccharide, *N*-linked; (Rat) (Hattori, M.-a. (992) 272)

Symmetry
ATP synthase structure; Electron microscopy; ATPase, F_1-; Quaternary structure (Tiedge, H. (977) 1)

Synaptic membrane
Glutamate binding, [^{3}H]-; Neurotransmitter receptor (Yoneda, Y. (1012) 74)

Synaptic plasma membrane
Choline uptake; γ-Aminobutyric acid; *n*-Alcohol; Synaptosome; Membrane potential (Mrak, R.E. (984) 97)

Synaptogenesis
Ganglioside; Sialyllactotetraosylceramide; Protein bound sialic acid; Dendritic arborization; (Human) (Svennerholm, L. (1005) 109)

Synaptosome
Sodium–calcium ion exchange; Calcium regulation; (Rat brain) (Nachshen, D.A. (979) 305)

Choline uptake; γ-Aminobutyric acid; *n*-Alcohol; Synaptic plasma membrane; Membrane potential (Mrak, R.E. (984) 97)

5-Hydroxytryptamine release; Sodium ion depletion; (Rat brain) (Collard, K.J. (984) 319)

Synergimycin
Antibiotic; Ribosome; Protein synthesis; Peptidyltransferase inhibitor (Nyssen, E. (1009) 39)

Synergism
Carbonic anhydrase; Urease; Gas-sensing electrode; Urea production (Botré, C. (997) 111)

Lipid peroxidation; Vitamin E; Biliverdin; Bilirubin; Antioxidant (Stocker, R. (1002) 238)

Cachectin/tumor necrosis factor; Interleukin-1; Lipoprotein lipase; (Mouse 3T3-L1 adipocyte) (Ogawa, H. (1003) 131)

Synthetic gene
Interleukin-1α; Gene expression; (Mouse); (*E. coli*) (Daumy, G.O. (998) 32)

Synthetic iron core
Phytoferritin; Metal binding; Nonferrous metal; Ferritin (Sczekan, S.R. (990) 8)

Synthetic peptide
Amino acid sequence, terminal; Pardaxin; Model membrane; Phosphatidylcholine; Phosphatidylserine (Saberwal, G. (984) 360)

Tyrosine protein kinase; EGF receptor; Phosphotyrosine; Phosphoacceptor site (Cola, C. (1012) 191)

Syringomycin
Potassium ion efflux; ATPase, H^+-; Plasma membrane; (*S. cerevisiae*); (*R. pilimanae*) (Zhang, L. (987) 171)

Systemic lupus erythematosus
Immune complex; Erythrocyte CR1; Binding kinetics (Meryhew, N.L. (991) 470)

Systemic lupus erythematosus
DNA synthesis; RNA synthesis; Autoantibody; (Human) (Van Helden, P.D. (1009) 137)

Systemic lupus erythomatosis
Dehydroisoandrosterone; Autoimmune disorder (Matsunaga, A. (992) 265)

System L
Lysosomal transport; Amino acid transport; System T (Stewart, B.H. (987) 145)

System T
Lysosomal transport; Amino acid transport; System L (Stewart, B.H. (987) 145)

System x_{AG}^-
Amino acid transport; Lysosomal transport; Anionic amino acid (Collarini, E.J. (987) 139)

System y^+
Amino acid transport; Basic amino acid transport; Lysine; Alanine; Sodium ion dependence; (Guinea pig placenta) (Wheeler, C.P.D. (978) 257)

T

Taka-amylase A
Thermal inactivation; Pressure (Makimoto, S. (996) 233)

Targeting
N-(2-Hydroxypropyl)methacrylamide copolymer; Monoclonal antibody B3/25; Transferrin; Drug carrier (Flanagan, P.A. (993) 83)

Liposome; Antibody; Ligand (Senior, J. (1003) 58)

Targeting chemotherapy
Antitumor agent; Adriamycin; Liposome stability; Cholesterol; Dipalmitoylphosphatidylcholine (Tomita, T. (978) 185)

Taurine
Blood-brain barrier; Amino acid transport; Sodium ion dependence; Brain capillary; (Rat) (Tayarani, I. (985) 168)

Taurine transporter
Sodium ion binding site; Tyrosine; Brush-border membrane; (Human placenta) (Kulanthaivel, P. (985) 139)

Taurocholate
Cholesterol; Micelle (Chijiiwa, K. (1001) 111)

Intestinal transport; Ileum; cyclic AMP; Bile acid absorption; (Rat) (Reymann, A. (1011) 158)

Taurocholate transporter
Radiation inactivation; Plasma membrane; (Rat liver) (Elsner, R. (983) 113)

Taxol
Electrokinetics; Platelet heterogeneity; Flow electrophoresis; (Human) (Crook, M. (1014) 26)

TCDD
Retinyl ester; UDP glucuronosyltransferase; Glucuronidation; Vitamin A (Bank, P.A. (993) 1)

T cell activation
Cadmium; Interleukin 2; Protein kinase C; Phosphatidylinositol hydrolysis; (Human) (Cifone, M.G. (1011) 25)

Temperature
Anesthesia; Ethanol; Membrane; Fluorescence (Hitzemann, R.J. (983) 205)

Elastase, Kinetics, Proteinase; Kinetics; Proteinase (Fitzpatrick, P.F. (995) 201)

Temperature dependence
ATPase, F_1-; Enzyme conformation; Nucleotide binding site; Fluorescence; Enzyme kinetics (Baracca, A. (976) 77)

Cytochrome oxidase; Flow flash spectrophotometry; Electron transfer; Oxygen intermediate; pH dependence (Oliveberg, M. (977) 322)

Temperature jump
Hemoglobin; Spin transition; Intramolecular reaction; ESR; Protein dynamics (Steinhoff, H.-J. (996) 49)

Temperature sensitivity
DNA replication; Fork displacement rate; (Chinese hamster ovary cells) (Wong, R.S.L. (1007) 224)

Cystinosis; Cystine translocation; Membrane fluidity; (Human skin fibroblast) (Forster, S. (1013) 7)

Tempone, ^{15}N perdeuterated
Reduction; Oxidation; Nitroxide spin label; Hydroxylamine (Chen, K. (992) 131)

Tentoxin
Nigericin; Electron transport; Energy dissipation; (Spinach leaf) (Quick, P. (974) 282)

Terminal redundancy
α2u Globulin; Urinary protein; LINE 1 interruption; Genomic sequence; Movable genetic element (Yamamoto, M. (1008) 322)

Ternary complex
Cytochrome *P*-450_{SCC}; Adrenodoxin; Crosslinking; Adrenodoxin binding site (Turko, I.V. (996) 37)

Tertiary structure
α-Crystallin; Phosphorylation; Tryptophan environment; Sulfhydryl location; Electron microscopy; Light scattering (Augusteyn, R.C. (999) 293)

Testis-specific transcript
Nucleotide synthesis; Phosphoribosylpyrophosphate synthetase; Ribose-phosphate pyrophosphokinase; Tissue-specific expression; recombinant DNA; (rat tissue) (Taira, M. (1007) 203)

Testosterone effect
25-Hydroxyvitamin D-3 1α-hydroxylase; Castration; Isotope dilution-mass spectrometry; (Guinea pig) (Hagenfeldt, Y. (1002) 84)

Tetraalanine
Elastase; Elastolysis; Conductimetry; (*P. aeruginosa*) (Saulnier, J.M. (995) 285)

Tetracaine
Local anesthetic; Glyceroglycolipid; NMR, ^{2}H- (Auger, M. (981) 351)

12-*O*-Tetradecanoylphorbol 13-acetate
Membrane splitting; Protein kinase C; Red blood cell; Tumor promoter; Diacylglycerol; Phorbol ester (Fisher, K.A. (982) 237)

Tetrahydrobiopterin
Pyruvoyltetrahydropterin synthase; (*E. coli*) (Kerler, F. (990) 15)

(−)-Δ^9-Tetrahydrocannabinol
Solid state NMR; NMR, ^{2}H-; Cannabinoid orientation; Model membrane; Drug–membrane interaction (Makriyannis, A. (986) 141)

Tetrahydrolipstatin
Lipase inhibitor; Fat absorption; (Rat intestine) (Fernandez, E. (1001) 249)

Tetrameric enzyme molecule
Cholesterol esterase; Fluorescein dilaurate; Nitrophenyl ester; Rhodamine 6G; (Human pancreas) (Meyer, J.G. (1002) 89)

Tetrapyrrole
Chromophore; Circular dichroism; Phytochrome; Topography; (Oat) (Singh, B.R. (996) 62)

Tetrodotoxin
Myelinated nerve; Sodium ion channel; Saxitoxin; (Frog) (Lönnendonker, U. (985) 153)

Myelinated nerve; Sodium ion channel; Saxitoxin; Fluctuation analysis; (Frog) (Lönnendonker, U. (985) 161)

Textilotoxin
Presynaptic neurotoxin; Phospholipase; Protein; Secondary structure; Spectroscopy (Aird, S.D. (997) 219)

Thalassemia
Copper; Iron; Ascorbate; Oxidative damage; Hemolytic anemia; (Human red blood cell) (Shinar, E. (1014) 66)

δ-Thalassemia
Delta variant; Unstable hemoglobin; Hemoglobin; DNA amplification; Sequencing; Peptide analysis (Codrington, J.F. (1009) 87)

Thallium binding
ATPase, Na^+/K^+-; Radiation inactivation; Potassium site (Jensen, J. (985) 248)

Thapsigargin
Histamine release; Arachidonic acid metabolism; Prostaglandin D_2; (Rat peritoneal mast cell) (Ohuchi, K. (1003) 9)

Theoretical model
Electrostatic interaction; Protein ionization; Lysozyme (Spassov, V.Z. (999) 1)

Thermal denaturation
Erythrocyte; Hemolysis; Hyperthermia; Membrane protein; DSC (Lepock, J.R. (980) 191)

Acetylcholine receptor; Neurotoxin binding site; Structure–function correlation; Cholesterol; Membrane fluidity (Artigues, A. (985) 325)

Thermal inactivation
Taka-amylase A; Pressure (Makimoto, S. (996) 233)

Thermal stability
Photosystem I; Electron transport; Catalytic hydrogenation; Lipid saturation (Vigh, L. (979) 361)

Thermal unfolding
Ribonuclease; Denaturation; Trichloroacetic acid treatment; NMR; (Bovine pancreas) (Sagar, A.J. (995) 144)

Thermodynamic efficiency
Non-equilibrium thermodynamics; Chemostat; Growth yield; Growth model; (*P. oxalaticus* OX1) (Rutgers, M. (973) 302)

Thermodynamics
Cytochrome *d*; Cytochrome *b*; ESR; Electron transport mechanism; (*E. coli*) (Meinhardt, S.W. (975) 175)

Stochastic process; Photosynthetic electron transport; Bacterial reaction center (Lavergne, J. (975) 346)

Phospholipid; Cholesterol; Differential scanning calorimetry (Bach, D. (979) 11)

Melittin; Phospholipid bilayer; Protein–membrane interaction; Kinetics (Schwarz, G. (979) 82)

Fluid secretion; Pancreas model; Control analysis; Nonequilibrium thermodynamics (Kuijpers, G.A.J. (984) 71)

Albumin–bile salt interaction; Fluorescence titration; Bile salt; Binding (Pico, G.A. (999) 128)

Thermodynamics, non-equilibrium
Chemostat; Growth model; Microbial growth; (*K. aerogenes*) (Rutgers, M. (977) 142)

Thermodynamic stability
Lipid X; Phosphatidylcholine; Phosphatidylethanolamine; Phase behavior; pH jump (Lipka, G. (979) 239)

Thermoluminescence
Chemiluminescence; Electron transport; Photosynthesis; Chloroplast preparation (Rózsa, Z. (973) 350)

Calcium extraction; Oxygen evolution; S state; ESR; Photosynthesis (Ono, T.-a. (973) 443)

Thermophile
Enzyme purification; Isocitrate dehydrogenase; (*Thermus*) (Eguchi, H. (990) 133)

Thymine dimer; DNA; Ultraviolet irradiation (Yein, F.S. (1009) 110)

Thermostability
Glucose oxidase; Enzyme subunit; (*A. niger*) (Ye, W.-N. (999) 86)

Thermotropic effect
Mercury chloride; Model membrane; Phospholipid–mercury interaction; Amine group, primary; Phase transition (Delnomdedieu, M. (986) 191)

Thermotropic phase behavior
ω-Cyclohexyl fatty acid; Phosphatidylcholine; Fourier transform infrared spectroscopy; Lipid (Mantsch, H.H. (980) 42)

Thiacarbocyanine
Microenvironment; Bile salt; Phosphatidylcholine; Cholesterol; Pyrene (Matsuzaki, K. (980) 371)

Thiamin biosynthesis
Pyrimidine moiety; Histidine incorporation; (*S. cerevisiae*) (Tazuya, K. (990) 73)

Thick filament
Hydrostatic pressure effect; myosin; Protein, C- (Tumminia, S.J. (999) 300)

Thin filament
Smooth muscle; (Chicken gizzard) (Lehman, W. (996) 57)

Thiocyanate inhibition
Membrane potential; Nutrient bicarbonate effect; (*R. pipiens* gastric fundus) (Schwartz, M. (979) 299)

Thiol
Potassium ion transport; *N*-Ethylmaleimide; Peroxide; Hemoglobin; Erythrocyte; (Human) (Sheerin, H.E. (983) 65)

Thiol activation
Chloroplast; ATPase; Electrochromism; Leaf (Kramer, D.M. (976) 28)

Thiol group
Modifying agent; Peptide transport; Brush-border membrane vesicle; (Rabbit kidney) (Miyamoto, Y. (978) 25)

Thiol-modifying reagent
Aldehyde dehydrogenase (Loomes, K.M. (998) 1)

Thiol modulation
Chloroplast; ATPase, H^+-; Proton gradient; Enzyme regulation; 9-Aminoacridine (Lohse, D. (976) 85)

Thiol proteinase
Prokallikrein activation; Tissue kallikrein; (Rat kidney) (Nishii, M. (990) 138)

Thiophosphatidic acid
Phosphatidic acid phosphatase; CDP-diacylglycerol synthase (Bonnel, S.I. (1005) 289)

Thioredoxin
Fructose-1,6-bisphosphatase; Woodward's reagent K; Diethyl pyrocarbonate; Organic solvent; Chaotropic anion (Prat-Gay, G. (973) 457)

Thioredoxin activation
Thioredoxin reductase; Calcium allosteric inhibition; (Human melanoma) (Schallreuter, K.U. (997) 242)

Thioredoxin reductase
Calcium allosteric inhibition; Thioredoxin activation; (Human melanoma) (Schallreuter, K.U. (997) 242)

THP-1
Nonenzymatic glycosylation; Leukemia cell; Aldehyde modified protein; Scavenger receptor (Takata, K. (986) 18)

Threonine dehydratase
Peptide sequence; Pyridoxalphosphate; Serine dehydratase; (Rat liver); (Yeast); (*E. coli*) (Ogawa, H. (996) 139)

L-Threonine dehydratase
Inhibition; Aminothiol (Leoncini, R. (994) 52)

Thrombin
Calcium ion; Secretion; Sodium ion–proton exchange; (Human platelet) (Alonso, M.T. (981) 367)

Lysophosphatidic acid; Platelet; Phospholipase A_2; (Human) (Gerrard, J.M. (1001) 282)

Lipoprotein lipase; Enzyme activity; Calcium; Ionophore A23187; (Rat adipocyte) (Soma, M.R. (1003) 307)

pH sensitivity; Fructose 2,6-bisphosphate; Alkalinization; Human platelet (Vasta, V. (1011) 165)

Plasmin; Antithrombin III; Protein degradation; (Mouse hepatocyte) (Spolarics, Z. (1012) 231)

α-Thrombin
NADH–cytochrome b_5 reductase; cDNA expression; (*E. coli*); (Human gene) (Shirabe, K. (1008) 189)

Thrombin generation
Factor X; Blood coagulation; (Plasma) (Hemker, H.C. (992) 409)

Thrombolysis
t-PA; Fibrin; NMR; Compartmentalized water; Plasminogen activator (Azoury, R. (995) 295)

Thromboxane
Prostacyclin; Prostaglandin; Smoking; Eicosanoid excretion; (Human urine) (Barrow, S.E. (993) 121)

Immunoreactive thromboxane; 2,3-Dinorthromboxane; Vascular risk factor; (Urine) (Lorenz, R.L. (993) 259)

Prostanoid; Prostaglandin; Glutathione; Decidua; (Human) (Asbóth, G. (1002) 101)

Dietary fatty acid; Fluorescence anisotropy; Membrane fluidity; Platelet activation; (Rat platelet) (Heemskerk, J.W.M. (1004) 252)

Prostaglandin endoperoxide H_2; Prostacyclin; Coronary artery; Platelet; Prostacyclin synthase (Mayeux, P.R. (1011) 18)

Prostaglandin receptor; Prostacyclin; Vascular smooth muscle; (Rat) (Hanasaki, K. (1013) 28)

Thromboxane A_2
Reversed phase high performance liquid chromatography; Radioimmunoassay; Thromboxane B_2; 2,3-Dinorthromboxane B_2; 11-Dehydrothromboxane B_2 (Patrignani, P. (992) 71)

Receptor; Thromboxane A_2/prostaglandin H_2 receptor; Photoaffinity labeling; 13-Azapinane; (Human platelet) (Mais, D.E. (1012) 184)

Fish oil; LDL; Angiotensin II; Inositol polyphosphate; Vascular smooth muscle cell (Locher, R. (1012) 279)

Thromboxane A_2/prostaglandin H_2 receptor
Receptor; Photoaffinity labeling; 13-Azapinane; Thromboxane A_2; (Human platelet) (Mais, D.E. (1012) 184)

Thromboxane B_2
11-Dehydrothromboxane B_2; 2,3-Dinorthromboxane B_2; Urinary thromboxane metabolite (Ciabattoni, G. (992) 66)

Reversed phase high performance liquid chromatography; Radioimmunoassay; Thromboxane A_2; 2,3-Dinorthromboxane B_2; 11-Dehydrothromboxane B_2 (Patrignani, P. (992) 71)

Thromboxane formation
Panaxynol; Ginsenoside; Platelet inhibition; (*P. ginseng*) (Teng, C.-M. (990) 315)

Thromboxane metabolism
GC-MS; (Rat kidney) (Chiabrando, C. (1006) 167)

Thylakoid
CF_1; Sulfite; ATPase activation; (Kinetics) (Larson, E.M. (973) 67)

CF_1; Chloroplast ATPase; Sulfite; Activation; Bound ADP (Larson, E.M. (973) 78)

ATP-γ-S; Fluorescence; Chloroplast; Phosphorylation; Photosystem II; (Spinach leaf) (Islam, K. (974) 267)

Protein phosphorylation; Prochlorophyte; State transition; Membrane protein; (*P. hollandica*) (Van der Staay, G.W.M. (975) 317)

Chloroplast coupling factor 1; δ-Subunit deficient chloroplast coupling factor; Chloroplast coupling factor binding; ATP synthesis (Xiao, J. (976) 203)

Digalactosyldiacylglycerol; Phosphatidylcholine; Permeability; Unilamellar vesicle; Fluidity (Webb, M.S. (984) 41)

Alamethicin; Spin label; Voltage-dependent channel; Membrane–peptide interaction; ESR (Wille, B. (986) 47)

Thylakoid membrane
Photosynthesis; Photosystem II; Oxygen evolution; Diuron binding (Chow, W.S. (973) 105)

Photophosphorylation; ATPase; Proton gradient; Enzyme regulation; (Lettuce chloroplasts) (Bizouarn, T. (974) 104)

Phospholipid distribution; Photosynthetic electron flow; Phosphatidylcholine; Phosphatidylglycerol; (Spinach chloroplast) (Siegenthaler, P.-A. (975) 104)

Membrane protein topography; Photosystem II; Cytochrome *b*-559; Immunocytochemistry; Monoclonal antibody (Vallon, O. (975) 132)

Protein phosphorylation; Bicarbonate effect; Photoinhibition; Light harvesting complex; (Spinach) (Sundby, C. (975) 277)

Photosynthesis; Phycobilisome; Photosystem stoichiometry; Protein phosphorylation; (Cyanobacterium) (Sanders, C.E. (976) 168)

Thymidine block
Cell cycle; Cell synchronization; Proteinase activity; (Human cell culture); (Hela cell) (Kozaki, Y. (1014) 120)

Thymidine kinase
Thymidylate kinase; Affinity chromatography; (Human placenta) (Tamiya, N. (995) 28)

Ribonucleotide reductase; DNA polymerase; Cell cycle; (Mouse mastocytoma) (Schaer, J.-C. (1009) 90)

Thymidylate synthetase; Liver regeneration; Colchicine; Vincristine; (Rat) (Tsukamoto, I. (1009) 191)

Thymidine kinase promoter
5-Azacytidine; Gene expression; Hemimethylated *Eco*RI site; DNA methylation; (HSV *tk* gene); (Thymidine kinase deficient human cell) (Tasseron-de Jong, J. (1008) 62)

Thymidylate kinase
Thymidine kinase; Affinity chromatography; (Human placenta) (Tamiya, N. (995) 28)

Thymidylate synthetase
Thymidine kinase; Liver regeneration; Colchicine; Vincristine; (Rat) (Tsukamoto, I. (1009) 191)

Thymine dimer
DNA; Ultraviolet irradiation; Thermophile (Yein, F.S. (1009) 110)

Thymocyte
Polyene antibiotic; Membrane binding; Membrane fluidity; Fluorescence probe; Fluorescence anisotropy (Henry-Toulmé, N. (982) 245)

Lipid peroxidation; DNA synthesis; Mitogenic response; Splenocyte; (Mouse) (Oarada, M. (1012) 156)

Protein phosphatase-1; Protein phosphatase-2A; Polycation; Heparin-Sepharose; (Rat) (Bakó, É. (1013) 300)

Thyroid hormone
Glycerol-3-phosphate dehydrogenase; In vitro translation; Mitochondrial processing; Protein transport (Clay, V.J. (975) 112)

ATPase, Na^+/K^+-; Ouabain; Respiration; (Hepatocyte) (Nobes, C.D. (976) 241)

3,3′,5′-Triiodo-L-thyronine; Reverse T_3; Bovine serum albumin; Fluorescence (Okabe, N. (990) 303)

Thyroxine binding globulin; (Rat) (Savu, L. (992) 379)

Gene expression; α-Fetoprotein; Albumin; Triiodothyronine; (Human hepatoma cell) (Conti, R. (1008) 315)

Thyroid-stimulating hormone
pH, cytoplasmic; Epidermal growth factor; Alkalinization; (Cultured porcine thyroid cell) (Takasu, N. (1012) 117)

Thyrotrophin
Triiodothyronine; Pituitary; Response element; Gene expression; Prolactin (Ahlquist, J.A.O. (1008) 251)

Thyrotropin
Calcium; Potassium depolarization; Phosphoinositide; Cytoplasmic calcium; Pituitary cell; (Bovine) (Wood, C.A. (1013) 97)

Thyroxine binding globulin
Thyroid hormone; (Rat) (Savu, L. (992) 379)

Time resolved fluorescence
Fluorescence; Polydeoxynucleotide (Barcellona, M.L. (993) 174)

Malate dehydrogenase; NADH; Fluorescence polarization (Jameson, D.M. (994) 187)

Time resolved fluorescence spectroscopy
Aromatic amino acid; Aromatic-L-amino-acid decarboxylase (Rosato, N. (996) 195)

Time-resolved phosphorescence anisotropy
Rotational dynamics; Erythrocyte membrane; Spectrin; Cytoskeletal matrix; Phosphorescence (Learmonth, R.P. (987) 124)

Tissue corticotropin releasing factor
Leydig cell; Immunoaffinity column chromatography; Paracrine effect; (Testis) (Audhya, T. (995) 10)

Tissue distribution
Phospholipase A_2; Molecular cloning (Sakata, T. (1007) 124)

Guanine nucleotide binding protein; Membrane protein; (Human); (Rat) (Hinsch, K.-D. (1013) 60)

Tissue explant
Collagen synthesis; In vitro; Intestine; Aging; (Rat) (Martens, M.F.W.C. (993) 252)

Tissue inhibitor of metalloproteinases
Osteoblast; Collagen degradation; 1,25-Dihydroxyvitamin D-3; Plasminogen activator; Collagenase; Metalloproteinase; (Mouse) (Thomson, B.M. (1014) 125)

Tissue kallikrein
Prokallikrein activation; Thiol proteinase; (Rat kidney) (Nishii, M. (990) 138)

Tissue plasminogen activator
Enzyme activity; Fibrin; Clot binding (Lavie, E. (991) 62)

Tissue-specific expression
Nucleotide synthesis; Phosphoribosylpyrophosphate synthetase; Ribose-phosphate pyrophosphokinase; Testis-specific transcript; recombinant DNA; (rat tissue) (Taira, M. (1007) 203)

Tissue-specific gene expression
Calcium binding protein; Parvalbumin; Oncomodulin; Gene organization; Gene regulation (Berchtold, M.W. (1009) 201)

3T3-L1 adipocyte
Adipsin; Insulin (Kitagawa, K. (1014) 83)

T lymphocyte
Interleukin 2; Phytohemagglutinin; Phosphoinositide turnover; Cell proliferation; (Human) (Korichneva, I.L. (1014) 173)

TMAO/DMSO reductase
Photosynthetic bacteria; Electron transport; Cytochrome *c*-556; Periplasmic protein; (*Rb. capsulatus*) (McEwan, A.G. (973) 308)

α-Tocopherol
Fluorescence; Lateral diffusion; Phospholipid vesicle (Aranda, F.J. (985) 26)

Lipid peroxidation; Dihydrolipoate; Antioxidant; Microsome; (Rat) (Scholich, H. (1001) 256)

Vitamin E; 5-Lipoxygenase; Polymorphonuclear leukocyte; Arachidonic acid release; Phospholipase A_2; (Rat) (Chan, A.C. (1005) 265)

Tocopherol depletion
Lipid peroxidation; Radical stress; Mitochondrial membrane; Protein fragmentation; (Rat) (Thomas, S.M. (1002) 189)

Tocopheroxyl radical
Ascorbic acid; Reaction rate; Stopped flow (Mukai, K. (991) 276)

Tolbutamide
Cardiac muscle; Glibenclamide; Diazoxide; Action potential; Potassium ion channel; ATP sensitive potassium ion channel; (Rat) (Faivre, J.-F. (984) 1)

Sodium; Pancreatic islet; Depolarization; Glucose; (Rat) (Ali, L. (1010) 283)

Tonoplast
Amino acid transport; ATP stimulation; Mesophyll cell; Vacuole; (Barley); (*H. vulgare*) (Dietz, K.-J. (984) 57)

Topogenesis
Microbody; Peroxisome; Glyoxysome; Glycosome; Protein translocation; Biogenesis (Borst, P. (1008) 1)

Topogenic signal
cDNA cloning; Nucleotide sequence; Amine oxidase gene; Yeast microbody; (*H. polymorpha*) (Bruinenberg, P.G. (1008) 157)

Topography
Chromophore; Circular dichroism; Phytochrome; Tetrapyrrole; (Oat) (Singh, B.R. (996) 62)

Topoisomerase II-DNA complex
Amsacrine; Topoisomerase II-DNA complex formation enhancing factor; Nucleus; (Murine mastocytoma cell) (Darkin, S.J. (1007) 295)

Topoisomerase II-DNA complex formation enhancing factor
Amsacrine; Topoisomerase II-DNA complex; Nucleus; (Murine mastocytoma cell) (Darkin, S.J. (1007) 295)

Toxicology
Mercury chloride; Calcium ion; Mitochondrion; Cell death; (Sea urchin egg) (Walter, P. (1012) 219)

Toxic site
Phospholipase A_2; Primary structure; Neurotoxin; Computer modeling; (*V. ammodytes ammodytes*); (Snake venom) (Križaj, I. (999) 198)

Toxin
Phosphate transport; Brush-border membrane; (Rabbit) (Al-Mahrouq, H.A. (981) 200)

Sodium ion channel; Cardiac muscle; S-DPI 201-106; ATX II; Veratridine (Schreibmayer, W. (986) 172)

Toxin inactivation
Lipopolysaccharide-low density lipoprotein complex; Phospholipid packing; Hyperlipidemia; ESR; NMR, ^{31}P-; Ultracentrifugation; Fluorescence; (Human) (Victorov, A.V. (984) 119)

Toxin translocation
Asialoglycoprotein; Hybrid toxin; Diphtheria toxin; Receptor (Chang, T.-M. (1013) 239)

***Trans*-acting factor**
Development; Storage protein gene; DNA binding protein; DNA-protein complex; (*S. peregrina*) (Kim, J.W. (1008) 79)

Transactivating protein
Nuclear matrix; viral mRNA; HIV-1 (Müller, W.E.G. (1008) 208)

Transacylase
Bis(monoacylglycero)phosphate; Macrophage lysosome (Huterer, S.J. (1001) 68)

Acyl-CoA; Coenzyme A; Heart muscle microsome; Lysophosphatidylcholine; Phosphatidylcholine (Sanjanwala, M. (1006) 203)

Transacylation
Neutrophil; Phospholipid; Arachidonic acid; Glycerophospholipid; ($n-3$)Fatty acid; (Human neutrophil) (MacDonald, J.I.S. (1004) 151)

Acyl-CoA : lysophospholipid acyltransferase; Ethanolamine plasmalogen; 1,2-Diacylglycero-3-phosphoethanolamine; Polyunsaturated fatty acid; (Rat brain microsome) (Masuzawa, Y. (1005) 1)

Transaminase assay
Branched chain aminotransferase; Aminotransferase assay (Airas, R.K. (992) 397)

Transamination
Oxidative decarboxylation; L-Isoleucine; L-Alloisoleucine; (Rat muscle) (Schadewaldt, P. (992) 115)

Transbilayer diffusion
Amphiphile transport; Multidrug resistance; (CHO cell) (Boscoboinik, D. (1014) 53)

Transbilayer mobility
Aminophospholipid; ATP-dependent translocase; Friend erythroleukemic cell; Phospholipid asymmetry; (Murine erythrocyte) (Middelkoop, E. (978) 241)

Erythrocyte membrane; Photodynamic treatment; Leak permeability; Flip-flop; Phospholipid; (Human) (Deuticke, B. (982) 53)

Transcobalamin
Autoantibody; Binding protein; Cobalamin; Isoelectric focusing (Hansen, M. (992) 209)

Transcortin
Plasma membrane; (Human endometrium) (Avvakumov, G.V. (984) 143)

Transcription
Malic enzyme; mRNA; Insulin; Nutrient: (Rat) (Katsurada, A. (1004) 103)

RNA editing; Kinetoplast DNA; DNA; Maxicircle; Minicircle; (Trypanosome mitochondria) (Benne, R. (1007) 131)

Chromosomal protein; Primary structure; (Archaebacteria) (Chartier, F. (1008) 309)

Histone; Myoblast; Differentiation; Gene regulation; (Rat) (Larson, D.E. (1009) 177)

Nonionizing radiation (Goodman, R. (1009) 216)

Epstein-Barr virus derived vector; Shuttle vector; Mutagenesis; (Human embryonic kidney cell) (Palombo, F. (1009) 251)

Transcriptional control
Insulin; Glucose-6-phosphate dehydrogenase; cDNA; (Rat liver) (Katsurada, A. (1006) 104)

Adenovirus E1A gene; Cell-free transcription; Footprint analysis (Shibata, H. (1007) 184)

DNA methylation; Growth hormone promoter; (Rat) (Gaido, M.L. (1008) 234)

Transcriptional regulation
Hypobetalipoproteinemia; DNA sequence analysis; Apolipoprotein B deficiency; (Human) (Ross, R.S. (1004) 29)

CCAAT displacement protein (CDP); DNAase I footprinting (Superti-Furga, G. (1007) 237)

Transcription factor
Post-translational modification; Eukaryotic transcription (Berk, A.J. (1009) 103)

Transcription initiation site
Lectin gene; Cloning; (*Sarcophaga*) (Kobayashi, A. (1009) 244)

Transcription system
Cell-free translation; Yeast invertase (Roitsch, T. (1009) 19)

Transducin
Lateral diffusion; Rod outer segment; Visual transduction; Rhodopsin; G protein (Saxton, M.J. (979) 27)

Transfection
Liposome; Detergent; DNA; (Mouse L-cell) (Pinnaduwage, P. (985) 33)

Apolipoprotein; HDL; Lipoprotein assembly; Secretion; (Chicken) (Dixon, J.L. (1009) 47)

Transferred NOE
NMR; Phospholipase A_2 protection; Active site (Williamson, M.P. (997) 9)

Transferrin
Iron release; Platelet; Adenine nucleotide; (Human) (Brieland, J.K. (978) 191)

Phosphatidylethanolamine; Covalent coupling; Protein micelle; Liposome (Afzelius, P. (979) 231)

Transferrin receptor; (Rat placenta) (Huebers, H.A. (991) 30)

N-(2-Hydroxypropyl)methacrylamide copolymer; Monoclonal antibody B3/25; Drug carrier; Targeting (Flanagan, P.A. (993) 83)

Carbohydrate structure; Isoelectric point; Sialic acid; (Human) (Petrén, S. (994) 161)

Growth promoting factor; Myeloid leukemia cell; (Horse serum); (Human cell) (Yoshinari, K. (1010) 28)

Transferrin receptor
Calcium chelator; Cytoskeleton; Reticulocyte (Morgan, E.H. (981) 121)

Transferrin; (Rat placenta) (Huebers, H.A. (991) 30)

Iron transport; Ferritin; (Murine mammary gland) (Schulman, H.M. (1010) 1)

Transformation
ribosomal DNA sequence; Nontranscribed spacer; DNA integration; Nonhomologous recombination; (*N. crassa*) (Russell, P.J. (1008) 243)

Transformed B cell
Epstein-Barr virus; Bone metabolism; Interleukin 1; Cell proliferation; (Human blood cell) (Hanazawa, S. (1012) 57)

Transforming activity
Singlet molecular oxygen; Single strand breaks; Plasmid DNA; Bacteriophage DNA; DNA; (*E. coli*) (Di Mascio, P. (1007) 151)

Transforming growth factor
Vitamin A metabolism; Extracellular matrix; Hepatocyte culture; (Ito cell); (Hepatocyte); (IEC-6 intestinal cell) (Davis, B.H. (1010) 318)

Transient expression
Promoter mutation; DNA amplification; Fetal globin gene; DNA sequencing; (K562 cell); (Human cell line) (Lanclos, K.D. (1008) 109)

Transient intermediate
Ribulose-bisphosphate carboxylase; Cobaltous ion; Optical absorption (Brändén, R. (995) 75)

Transition temperature
Free fatty acid; Liposome stability (Crowe, J.H. (979) 7)

Hexagonal H_{II} phase; Lipid vesicle; Phosphatidylethanolamine (Brown, P.M. (980) 181)

Translational entropy
Receptor capping; Cytoskeleton (Shiozawa, J.A. (980) 361)

Transmembrane distribution
ATP synthesis; CF_0/CF_1; Lipid packing; Membrane fluidity; Monogalactosyldiacylglycerol (Rawyler, A. (975) 283)

Transmembrane localization
Glycerone phosphate acyltransferase; Acyldihydroxyacetone phosphate; Alkyldihydroxyacetone-phosphate synthase; (Rat liver peroxisomes) (Hardeman, D. (1006) 1)

Transmembrane potential
Electrorotation; Phase difference; Membrane modification; Membrane behavior, non-linear (Fuhr, G. (980) 1)

Transmembrane signalling
Lymphocyte, B; G protein; Surface immunoglobulin; Phospholipase C; Inositol phospholipid (Monroe, J.G. (1013) 273)

Transmission electron microscopy
Micelle–vesicle transition; Bile salt; Phosphatidylcholine; Drug entrapment; Quasi-elastic light scattering (Son, K. (981) 288)

Transmission infrared spectroscopy
Bacterial cell surface; Molecular surface composition; Fourier transform infrared spectroscopy; X-ray photoelectron spectroscopy (XPS) (Van der Mei, H.C. (991) 395)

Transparency
Collagen; Cyanogen bromide fragment; Fibril diameter; Hydroxylysine glycoside; (Bovine cornea) (Ibrahim, J. (992) 9)

Transport
Photoaffinity labeling; *S*-(4-Azidophenacyl)glutathione; Glutathione *S*-transferase; Membrane vesicle; (Rat liver) (Kunst, M. (982) 15)

Membrane vesicle; *S*-(2,4-Dinitrophenyl)glutathione uptake; ATP stimulation; (Rat liver) (Kunst, M. (983) 123)

Glucose; 6-Deoxy-D-glucose; Specificity; (*T. brucei*) (Eisenthal, R. (985) 81)

Fatty acid; Erythrocyte membrane; Flip-flop; Albumin; (Human blood) (Bröring, K. (986) 321)

Transport ATPase
ATPase, H^+-; Plasma membrane; Essential histidine; Histidine residue; Membrane transport (Morjana, N.A. (985) 19)

Transport energetics
Cotransport; Proton transport; Galactoside dependence; Lactose carrier; *lac*Y (King, S.C. (982) 253)

Transport protein
Carrier protein; Enzyme characterization; Reconstitution; Artificial membrane; (Mitochondria) (Krämer, R. (974) 1)

mRNA transport factor; RNA transport factor; Oncofetal transport factor; Carcinogenesis; (Rat liver nuclei) (Schumm, D.E. (1009) 54)

Transposon mutagenesis
Light harvesting; Energy transfer; Photosynthesis; Antenna complex; (*Rb. sphaeroides*) (Hunter, C.N. (973) 383)

Transverse tubule
Sodium–calcium ion exchange; Intracellular calcium regulation; (Frog skeletal muscle) (Donoso, P. (978) 8)

Trap
Optical cross section; Poisson distribution; Reaction center; Single turnover flash; Quantum requirement; Energy transfer; Fluorescence induction; Antenna, light-harvesting; Pigment protein (Mauzerall, D. (974) 119)

Trehalose
Hexagonal H_{II} phase; Dioleoylphosphatidylethanolamine; DSC; Fourier transform infrared spectroscopy; X-ray diffraction (Wistrom, C.A. (984) 238)

Cryoprotection; Freeze-thaw damage, mechanical; Membrane permeability; Osmotic stress; (Spinach thylakoid) (Hincha, D.K. (987) 231)

***trfA* gene**
DNA replication; Plasmid RK2; Broad host range; (*E. coli*); (*P. aeruginosa*); (*P. putida*) (Shingler, V. (1007) 301)

Triacinyl dye
Phospholipase A_1; Lysosome protein; Hydrophobic interaction chromatography; (Rat liver) (Löffler, B.-M. (1003) 225)

Triacylglycerol
Hepatic lipase deficiency; Lipoprotein lipase; HDL; LDL; (Rabbit) (Clay, M.A. (1002) 173)

α-Bromopalmitate; Fatty acid; Cholesterol; Fatty acid binding protein; (Rat serum) (Hagve, T.-A. (1004) 143)

Nephrotic syndrome; Hyperlipoproteinemia; Lymph flow rate; Chylomicron synthesis; Intestinal apolipoprotein; (Rat) (Levy, E. (1005) 20)

Fish oil; Linseed oil; $n-3$ fatty acid; Hypotriglyceridemia; (Rat) (Garg, M.L. (1006) 127)

Triacylglycerol biosynthesis
Phosphatidylcholine; Phosphatidylethanolamine; Phospholipid; (Mammalian liver) (Tijburg, L.B.M. (1004) 1)

Triacylglycerol degradation
Multisystemic lipid storage myopathy; Fluorescent triacylglycerol; Triacylglycerol lipase; (Human lymphoid cell line) (Radom, J. (1005) 130)

Triacylglycerol hydrolase
Fatty acid specificity; Enzyme kinetics; Fatty acid chain length (Rangheard, M.-S. (1004) 20)

Triacylglycerol hydrolysis
Gastric lipase; Gastric lipolysis; Lipid digestion; (Human); (Bovine) (Bernbäck, S. (1001) 286)

Triacylglycerol lipase
Hepatic lipase; HDL; Lipoprotein lipase; Cholesteryl ester transfer reaction; (Human) (Simard, G. (1001) 225)

Multisystemic lipid storage myopathy; Fluorescent triacylglycerol; Triacylglycerol degradation; (Human lymphoid cell line) (Radom, J. (1005) 130)

Triacylglycerol metabolism
Cholesterol metabolism; Lipoprotein lipase; VLDL; (Diabetic rabbit) (Minnich, A. (1002) 324)

Triacylglycerol synthesis
Phosphatidic acid phosphatase; Nucleotide diphosphate; (Rat liver) (Berglund, L. (1002) 382)

Triacylglycerol transfer
Lipid transfer protein; Esterified cholesterol transfer; Lipoprotein; HDL; Lipoprotein modification; (Rabbit) (Abbey, M. (1003) 20)

Triacylglycerol turnover
Lactate; Glycerol 3-phosphate; Glycogen; (Rat heart) (De Groot, M.J.M. (1006) 111)

Tricarboxylate carrier
Membrane transport; Reconstitution; Liposome; Mitochondrion; (Rat liver) (Bisaccia, F. (977) 171)

Trichloroacetic acid treatment
Ribonuclease; Thermal unfolding; Denaturation; NMR; (Bovine pancreas) (Sagar, A.J. (995) 144)

Trichorzianin analog
Peptaibol; Amino alcohol; Lipid bilayer; Voltage-dependent conductance; Single-channel behavior (Duclohier, H. (987) 133)

Trichorzianine
Model membrane; Antibiotic–membrane interaction; (Amoeba *Dictyostelium*) (Hajji, M.E. (978) 97)

Trifluoperazine
Phosphatidylinositol 4-phosphate; Phosphatidylinositol 4,5-bisphosphate; Phosphatidylinositol-4-phosphate kinase; Calcium ion; (Bovine adrenal medulla) (Husebye, E.S. (1010) 250)

Trifluoperazine fluorescence
Circular dichroism, induced; Fluorescence, trifluoperazine; S100 protein; Calcium ion binding protein (Ogoma, Y. (997) 188)

Trigalactosylceramide
Phosphonoglycosphingolipid; Phosphonolipid; *N*-Methylaminoethylphosphonic acid; FAB-MS; Structure determination; (*T. cornutus*) (Hayashi, A. (1006) 89)

Triglyceride lipase
Lipoprotein lipase; Purification; Immunochemistry; Lipoprotein metabolism; (Human liver) (Ikeda, Y. (1003) 254)

3,3′,5′-Triiodo-L-thyronine
Thyroid hormone; Reverse T_3; Bovine serum albumin; Fluorescence (Okabe, N. (990) 303)

Triiodothyronine
Pituitary; Response element; Gene expression; Thyrotrophin; Prolactin (Ahlquist, J.A.O. (1008) 251)

Gene expression; α-Fetoprotein; Albumin; Thyroid hormone; (Human hepatoma cell) (Conti, R. (1008) 315)

Trimethylamine-*N*-oxide reductase
Immunoelectrophoresis; Enzyme induction; (*E. coli*) (Silvestro, A. (999) 208)

5-Trimethylammonio-2-pentanone
Acetylcholinesterase; 1-Bromo-2-[^{14}C]pinacolone; Active site directed inactivator; Diisopropyl fluorophosphate, ^{3}H-labeled (Cohen, S.G. (997) 167)

(Trimethylsilyl)propanesulfonic acid
NMR; Vascular smooth muscle; NMR frequency marker (Clark, J.F. (1014) 235)

Triolein
Lipolysis; Chylomicron-like emulsion; Cholesteryl oleate; (Rat) (Mortimer, B.C. (1002) 359)

Tripeptide transport
Brush-border membrane vesicle; Sodium gradient; Papain; (Human jejunum) (Wilson, D. (986) 123)

Triphasic reduction
Cytochrome bc_1 complex; Semiquinone radical; Kinetics, i-site (West, I.C. (976) 182)

Triplet energy transfer
Borohydride; Carotenoid; Reaction center; (*Rb. sphaeroides*) (Frank, H.A. (976) 222)

Triplet formation
Electron transfer; Energy transfer; Reaction center; Low temperature; (*H. chlorum*) (Smit, H.W.J. (973) 212)

Triplet state
Photosynthetic bacteria; Reaction center; Single crystal; Carotenoid; (*Rb. sphaeroides* 2.4.1) (Taremi, S.S. (973) 86)

Semiquinone iron; Radical pair state; Photoinhibition; Plastoquinone; Photosynthesis (Van Mieghem, F.J.E. (977) 207)

Anthracycline; Flash photolysis; ESR; Singlet oxygen (Andreoni, A. (990) 190)

Triton X-100
β-Glucosidase; Gaucher disease; Lysosome; Subunit coupling; Irradiation; Radiation inactivation (Maret, A. (996) 254)

Triwaglerin
Snake venom; Platelet aggregation; (*T. wagleri*) (Teng, C.-M. (992) 258)

Tropomyosin
Troponin; Protein phosphorylation; Calcium ion regulation; Cardiac muscle (Raggi, A. (997) 135)

Caldesmon; Actomyosin; Platelet; Smooth muscle (Onji, T. (999) 248)

Troponin
Tropomyosin; Protein phosphorylation; Calcium ion regulation; Cardiac muscle (Raggi, A. (997) 135)

Aldolase–myofibril interaction; Calcium binding; Muscle myofibril (Harris, S.J. (999) 95)

Trypsin
Cystic fibrosis; Serum activation; Enterokinase; Immunoreactivity; (Human) (Carrère, J. (993) 137)

Trypsin-like enzyme
Serine proteinase; Enzyme mechanism; Catalytic mechanism (Ascenzi, P. (998) 210)

Tryptase
Histamine; Divalent cation; (Human mast cell) (Alter, S.C. (991) 426)

Tryptic hydrolysis
Apolipoprotein A-II; Structure–function relationship; (Human plasma) (Massey, J.B. (999) 121)

Tryptophan
Fluorescence; 3-Phosphoglycerate kinase (Dryden, D.T.F. (997) 313)

Tryptophan environment
α-Crystallin; Phosphorylation; Tertiary structure; Sulfhydryl location; Electron microscopy; Light scattering (Augusteyn, R.C. (999) 293)

Tryptophan fluorescence
Amphipathic antimicrobial peptide; Alpha-helical peptide; Fluorescent peptide; Pyrenylalanine; Peptide–lipid interaction; Peptide–peptide interaction (Lee, S. (984) 174)

Tryptophan metabolism
Tumor cell line; Indoleamine; Interferon; (Human cell culture) (Werner-Felmayer, G. (1012) 140)

Tryptophan photooxidation
Crystallin; Posttranslational protein modification; (Calf lens) (Pulcini, D. (995) 64)

Tubular myelin
Pulmonary surfactant; Alveolar surface tension; Alveolar stability; Lipoprotein; (Canine lung) (King, R.J. (1001) 294)

Tubulin
Colchicine; Mebendazole; Microtubule inhibition; Nematode; (*C. elegans*) (Russell, G.J. (993) 233)

Microtubule; Raman spectroscopy; Secondary structure (Audenaert, R. (996) 110)

Glycolytic enzyme; Microtubule; Poly(ethylene glycol); Microtrabeculae; Cytomatrix (Walsh, J.L. (999) 64)

β-Tubulin
Antimitotic drug; 2,4-Dichlorobenzyl thiocyanate; Sulfhydryl group; Alkylation (Bai, R.-l. (994) 12)

Tubulin, T-
Nifedipine; Protein, 60 kDa; Antibody; Calcium ion channel; (Heart cell beating) (Chatterjee, D. (984) 104)

Tumor
LDL; Lipoprotein; Lipoprotein transport; LDL receptor; (Mouse) (Lombardi, P. (1003) 301)

Tumor cell
Colloid uptake; Poly(DL-lysine)polymerization; Surface charge; (P388 ascites leukemia cell) (Anghileri, L.J. (982) 307)

Phosphoprotein; Osteopontin; Milk protein; (Human) (Senger, D.R. (996) 43)

Iron chelator; Desferrioxamine; Liposome; Erythroid differentiation; (Mouse) (Nastruzzi, C. (1013) 36)

Tumor cell line
Chorionic gonadotropin synthesis; Gene structure; mRNA, steady state level; (Human) (Cosgrove, D.E. (1007) 44)

Tryptophan metabolism; Indoleamine; Interferon; (Human cell culture) (Werner-Felmayer, G. (1012) 140)

Tumor cell mitochondria
Hexokinase; Glycolysis; Adenylate kinase; Oxidative phosphorylation; (HT29 cell) (Gauthier, T. (975) 231)

Tumor cytotoxicity
Muramyl dipeptide; Liposome; Macrophage; (Rat liver) (Daemen, T. (991) 145)

Tumorigenicity
Retinoic acid; Collagen IV; Cell cycle; Cell differentiation; c-*myc* gene; (F9 teratocarcinoma cell) (Schulz, W.A. (1013) 125)

Tumor marker
Colorectal cancer; Ribosomal protein; Gene expression; Nucleotide sequence; Growth regulation; (Human) (Chester, K.A. (1009) 297)

Tumor necrosis factor
Lipoprotein lipase; Hepatic triacylglycerol lipase; Chylomicron; (Human) (Chajek-Shaul, T. (1001) 316)

Tumor promoter
Membrane splitting; Protein kinase C; Red blood cell; Diacylglycerol; Phorbol ester; 12-*O*-Tetradecanoylphorbol 13-acetate (Fisher, K.A. (982) 237)

Okadaic acid; Dinophysistoxin-1; Prostaglandin E_2; (Rat peritoneal macrophage) (Ohuchi, K. (1013) 86)

Turbidity
Fibrin; Fibrin gel structure; Microscopy; Permeability (Blombäck, B. (997) 96)

Two dimensional COSY
Des-(B26–B30)-insulin; NMR, ^{1}H- (Hua, Q.-X. (994) 114)

Two dimensional gel electrophoresis
Phospholipase A_2; Protein characterization; (Rat lung) (Lindahl, M. (1005) 282)

Two-dimensional nuclear Overhauser effect
Anesthesia theory; Vesicle membrane; Interface; Nuclear Overhauser difference spectroscopy; Hydrophyl–hydrophobe balance (Yokono, S. (982) 300)

Type II cell
Lung surfactant; cDNA; mRNA (Emrie, P.A. (994) 215)

Lung surfactant; SP-C; Nucleotide sequence; Amino acid sequence; Species homology; Surfactant protein (Fisher, J.H. (995) 225)

Lung surfactant; Acyl-CoA species; Glycerol 3-phosphate acylation; (Rat lung) (Den Breejen, J.N. (1002) 277)

Surfactant peptide; Phospholipid uptake; (Rat) (Rice, W.R. (1006) 237)

Type II pneumocyte
Pulmonary surfactant; Vasopressin; Phosphatidylcholine secretion (Brown, L.A.S. (1001) 76)

Tyrosinase
3,4-Dihydroxymandelic acid; Oxidative decarboxylation; 3,4-Mandeloquinone; Quinone methide; Pulse radiolysis (Bouheroum, M. (998) 57)

Melanin synthesis; Nucleotide sequence; Albinism; (Human Liver) (Kikuchi, H. (1009) 283)

Tyrosine
Taurine transporter; Sodium ion binding site; Brush-border membrane; (Human placenta) (Kulanthaivel, P. (985) 139)

L-Asparaginase; Histidine; Chemical modification; NMR, ^{1}H-; (*E. coli*) (Bagert, U. (999) 36)

L-Tyrosine carboxy-lyase
Tyrosine decarboxylase; Aromatic-L-amino-acid decarboxylase; Aromatic-L-amino-acid carboxy-lyase; Fast polymer liquid chromatography; (*S. faecalis*); (Pig kidney) (Børresen, T. (993) 108)

Tyrosine decarboxylase
L-Tyrosine carboxy-lyase; Aromatic-L-amino-acid decarboxylase; Aromatic-L-amino-acid carboxy-lyase; Fast polymer liquid chromatography; (*S. faecalis*); (Pig kidney) (Børresen, T. (993) 108)

Tyrosine hydroxylase
Cytoplasmic enyzme; Actin, G-; Cytoskeletal element; Catecholamine synthesis (Morita, K. (993) 21)

Tyrosine kinase
Aging; Gastric mucosal regeneration; Proto-oncogene (Majumdar, A.P.N. (992) 35)

Neutrophil; Protein purification; Inhibitor (Berkow, R.L. (997) 292)

Tyrosinemia
Fanconi syndrome; Renal development; Succinylacetone; Membrane fluidity (Roth, K.S. (987) 38)

Tyrosine protein kinase
EGF receptor; Synthetic peptide; Phosphotyrosine; Phosphoacceptor site (Cola, C. (1012) 191)

Tyrosine residue
Photosystem II; D1-protein; Electron donor (Z); Peptide mapping (Takahashi, Y. (973) 138)

Apolipoprotein A-II; Spectroscopy; (Human plasma) (Massey, J.B. (999) 111)

U

U18666A
Squalene synthetase; Sterol regulation; Lipoprotein; Compactin; (Hep G2) (Cohen, L.H. (1002) 69)

U46619 binding
Arachidonic acid; Platelet desensitization; Lipid phase fluidity; Platelet membrane; (Human) (Sato, T. (992) 168)

Ubiquinol:cytochrome *c* oxidoreductase
Steady state kinetics; Core II protein, 40 kDa; Subunit VI, 17 kDa; Gene deletion; (HR2 wild type yeast) (Schoppink, P.J. (974) 192)

Ubiquinone
Phospholipid; Ultrasonic irradiation; Sonolysis; Vesicle; Free radical (Landi, L. (984) 21)

UDPglucose:poriferasterol glucosyltransferase
Differentiation; (*P. polycephalum*) (Murakami-Murofushi, K. (992) 412)

UDP glucuronosyltransferase
Retinyl ester; Glucuronidation; Vitamin A; TCDD (Bank, P.A. (993) 1)

U3 gene
snRNA; Genetic evolution; DNA sequence; U3 pseudogene; (Human) (Yuan, Y. (1008) 14)

Ultracentrifugation
Lipopolysaccharide-low density lipoprotein complex; Phospholipid packing; Toxin inactivation; Hyperlipidemia; ESR; NMR, ^{31}P-; Fluorescence; (Human) (Victorov, A.V. (984) 119)

Ultrafiltration
S-Adenosyl-L-methionine; Sodium poly(styrene sulfonate); Binding interaction; Stacking (Barbato, G. (991) 324)

Ultrasonic irradiation
Phospholipid; Ubiquinone; Sonolysis; Vesicle; Free radical (Landi, L. (984) 21)

Ultrasound
Liposome; ESR; Phase transition; Deuterium oxide (Ma, L.D. (978) 283)

Ultraviolet irradiation
Cell permeabilization; Merocyanine; Flow cytometry; Photobleaching; FRAP; (Mouse spleen) (Szabo Jr., G. (979) 365)

Furocoumarin; Psoralen; Angelicin; Glutathione; Photooxidation; Melanin pigmentation; Oxygen radical (D'Ischia, M. (993) 143)

DNA single strand break; Cytosine arabinoside; (Human fibroblast cell) (Ahnström, G. (1007) 357)

Mutagenesis; SOS response; In vitro replication; DNA; (*E. coli*); (ColE1 plasmid) (Casaregola, S. (1008) 45)

Thymine dimer; DNA; Thermophile (Yein, F.S. (1009) 110)

Ultraviolet light
Nuclease; DNA endonuclease; DNA repair; DNA damage; (Spinach) (Doetsch, P.W. (1007) 309)

UMR-106 cell
Parathyroid hormone; Peptide degradation; Chymotrypsin; Endopeptidase; (Rat) (Yamaguchi, T. (1010) 177)

Uncoupler
Oxidative phosphorylation; Mitochondrial ATPase; Inhibitor; Almitrine; (Yeast) (Rigoulet, M. (975) 325)

Magainin; Vertebrate peptide antibiotics; Free energy transduction; Membrane potential; Mitochondrial oxidative phosphorylation; PGLa; (*X. laevis*) (Westerhoff, H.V. (975) 361)

1,2-Dibromoethane; Glutathione; HPLC; (Rat liver mitochondria) (Botti, B. (992) 327)

Uncoupling
Membrane potential; Fatty acid; Proton conductance; Mitochondrion (Schönfeld, P. (977) 266)

Undernutrition
Myelin; ATPase, Na^+/K^+-; 5′-Nucleotidase; Phospholipid fatty acid; Ganglioside; (Rat) (Shantharam, P. (982) 115)

Unfolding
Monomeric bacteriorhodopsin; Conformational stability (Maglova, L. (975) 271)

Unilamellar vesicle
Membrane vesicle; Cholesterol; Fluorescence polarization; NMR, ^{1}H-; NMR, ^{13}C-; Phospholipid bilayer (Bhakuni, V. (982) 216)

Digalactosyldiacylglycerol; Phosphatidylcholine; Permeability; Thylakoid; Fluidity (Webb, M.S. (984) 41)

Unisite catalysis
ATPase, F_1-; Cooperativity; Azide inhibition; Inhibitor protein, IF_1 (Harris, D.A. (974) 156)

Unsaturated fatty acid
Ouabain-like factor, endogenous; Cardiac glycoside; Vanadate; ATPase, Na^+/K^+- (Hansen, O. (986) 130)

Unsaturated fatty acid chain
Phosphatidylserine; Magnesium ion complex; Hydration; Fourier transform infrared spectroscopy; NMR, ^{31}P- (Casal, H.L. (982) 228)

Unsaturated fatty acid metabolism
5-Lipoxygenase; (Basophilic leukemia cell); (Rat) (McMillan, R.M. (1005) 170)

Unstable hemoglobin
Delta variant; Hemoglobin; δ-Thalassemia; DNA amplification; Sequencing; Peptide analysis (Codrington, J.F. (1009) 87)

Untranslated region (3′-)
Estrogen receptor gene; Restriction enzyme analysis; (Human) (Keaveney, M. (1007) 289)

U3 pseudogene
snRNA; Genetic evolution; DNA sequence; U3 gene; (Human) (Yuan, Y. (1008) 14)

Urea
Erythrocyte; Channel; Carrier; Kinetics; Permeability (Yousef, L.W. (984) 281)

Urea denaturation
Ferredoxin; Iron-sulfur cluster; ESR; CD; Protein structure; (Spinach) (Ohmori, D. (996) 166)

Ferredoxin; Iron-sulfur cluster; CD; Protein structure; (Spinach) (Hasumi, H. (996) 173)

Urea production
Carbonic anhydrase; Urease; Gas-sensing electrode; Synergism (Botré, C. (997) 111)

Urease
Carbonic anhydrase; Gas-sensing electrode; Synergism; Urea production (Botré, C. (997) 111)

Uricase
Peroxisomal targeting signal; Nucleotide sequence; (Rabbit liver) (Motojima, K. (1008) 116)

Uridine
Nucleoside transport; Nucleoside salvage; Phosphorylation; (Mouse spleen cell) (Plagemann, P.G.W. (981) 315)

Uridine transport
Brush-border membrane vesicle; Active nucleoside transport; Sodium ion dependence; (Rabbit intestine) (Jarvis, S.M. (979) 132)

Urinary protein
α2u Globulin; LINE 1 interruption; Genomic sequence; Movable genetic element; Terminal redundancy (Yamamoto, M. (1008) 322)

Urinary thromboxane metabolite
Thromboxane B_2; 11-Dehydrothromboxane B_2; 2,3-Dinorthromboxane B_2 (Ciabattoni, G. (992) 66)

Urokinase
Plasminogen activator inhibitor; Placental microvillous membrane (Jensen, P.H. (986) 135)

Ursodeoxycholic acid
Hydroxysteroid dehydrogenase; Bile acid transformation; Chenodeoxycholic acid; (*Clostridium* sp.) (Edenharder, R. (1002) 37)

Uveitogenic peptide
Bovine; Antigen, S-; Amino terminal sequence (Tsunasawa, S. (994) 191)

V

Vacuolar ATPase
Lysosome; ATPase, H^+-; Subunit structure (Moriyama, Y. (980) 241)

Vacuolar ribonuclease
HPLC; Ribonucleolytic activity; Base specificity; (*L. esculentum*) (Abel, S. (998) 145)

Vacuole
ATPase, H^+-; Proton pump; Prelysosome; Endocytosis; (*D. discoideum*) (Padh, H. (982) 271)

Amino acid transport; ATP stimulation; Mesophyll cell; Tonoplast; (Barley); (*H. vulgare*) (Dietz, K.-J. (984) 57)

Glucoamylase; Gene expression; (*S. cerevisiae*) (Pugh, T.A. (994) 200)

Valine-tRNA ligase
Valyl-tRNA synthetase; 3′-*O*-Anthraniloyl-ATP; Enzyme-substrate binding; Fluorometric titration; Fast kinetics; Stopped flow method; (*B. stearothermophilus*) (Kakitani, M. (996) 76)

Valine-tRNA synthetase
NMR, ^{13}C-; $tRNA_I^{Val}$; tRNA–protein interaction; Contact site; (*E. coli*); (*B. stearothermophilus*) (Schweizer, M.P. (1008) 293)

Valinomycin
Hypoxia; Iron absorption; Nigericin; Glucose uptake; (Mouse duodenum) (Raja, K.B. (984) 262)

Valyl-tRNA synthetase
Valine-tRNA ligase; 3′-*O*-Anthraniloyl-ATP; Enzyme-substrate binding; Fluorometric titration; Fast kinetics; Stopped flow method; (*B. stearothermophilus*) (Kakitani, M. (996) 76)

Vanadate
Glucose transport; (Rat small intestine) (Kellett, G.L. (979) 311)

Calcium ion transport, passive; Calcium ion entry blocker; Quin2; (Erythrocyte) (Engelmann, B. (981) 36)

Ouabain-like factor, endogenous; Cardiac glycoside; Unsaturated fatty acid; ATPase, Na^+/K^+- (Hansen, O. (986) 130)

Vanadate inhibition
ATPase, Mg^{2+}-; Electrostatic interaction; Ionic effect; (Corn root plasmalemma) (Gibrat, R. (979) 46)

Vanadate sensitive ATPase
Halotolerant alga; Kinetics; Enzyme characterization; (*D. salina*) (Weiss, M. (974) 254)

Vanadium enzyme
Bromoperoxidase; Immunological property; Rhodophyta; (*C. pilulifera*) (Krenn, B.E. (998) 63)

Vascular cell
Lysosomal hydrolase; Endothelial cell; Agonist; (Human) (Morgan, D.M.L. (1010) 184)

Vascular plasminogen activator
Plasminogen activator; Recombinant tissue type plasminogen activator; Kinetics; Amino acid sequence; Carbohydrate composition; (Human) (Hamaguchi, M. (1009) 143)

Vascular risk factor
Immunoreactive thromboxane; 2,3-Dinorthromboxane; Thromboxane; (Urine) (Lorenz, R.L. (993) 259)

Vascular smooth muscle
Prostaglandin receptor; Prostacyclin; Thromboxane; (Rat) (Hanasaki, K. (1013) 28)

NMR; (Trimethylsilyl)propanesulfonic acid; NMR frequency marker (Clark, J.F. (1014) 235)

Vascular smooth muscle cell
Fish oil; LDL; Angiotensin II; Inositol polyphosphate; Thromboxane A_2 (Locher, R. (1012) 279)

Vasoactive intestinal peptide
Pancreas; Peptide structure; (Cod); (Teleost) (Thwaites, D.T. (999) 217)

Vasoconstrictor activity
Circular dichroism; Chou-Fasman calculation; Neuropeptide Y; Raman spectroscopy; Solid phase synthesis (Balasubramaniam, A. (997) 176)

Vasopressin
Pulmonary surfactant; Type II pneumocyte; Phosphatidylcholine secretion (Brown, L.A.S. (1001) 76)

Phospholipase C; (Rat hepatocyte) (Pittner, R.A. (1010) 227)

Glutamine synthesis; Glutamine degradation; (Rat liver cell) (Vincent, N. (1014) 184)

VDAC
Outer mitochondrial membrane; Membrane permeability; Organic cation (Mannella, C.A. (981) 363)

Porin; Mitochondrion; Lipid bilayer; Reconstitution; Ion selectivity; (*D. melanogaster*) (De Pinto, V. (987) 1)

Aluminium hydroxide; Mitochondrion; Voltage dependence; Mitochondrial channel; Outer membrane (Zhang, D.-W. (991) 68)

VDAC protein
Mitochondrial membrane; Mitochondrial porin; Membrane fusion; Protein crystallization; Membrane channel protein (Mannella, C.A. (981) 15)

Verapamil
Inositol lipid metabolism; Calcium ion, intracellular; Cholinergic receptor; Phorbol ester; (Bovine anterior pituitary cell) (Wood, C.A. (1013) 180)

Nicardipine; Calcium ion channel; (Barnacle muscle fiber) (Xie, H. (1014) 207)

Veratridine
Sodium ion channel; Cardiac muscle; Toxin; S-DPI 201-106; ATX II (Schreibmayer, W. (986) 172)

Veratryl alcohol
Ligninase; Compound I; Compound II; Hydrogen peroxide; Potassium ferrocyanide; One electron oxidation; Pre-steady-state kinetics (Harvey, P.J. (994) 59)

Vertebrate peptide antibiotics
Magainin; Free energy transduction; Membrane potential; Mitochondrial oxidative phosphorylation; Uncoupler; PGLa; (*X. laevis*) (Westerhoff, H.V. (975) 361)

Vesicle
Phospholipid; Ubiquinone; Ultrasonic irradiation; Sonolysis; Free radical (Landi, L. (984) 21)

Micelle; Octyl glucoside; Phosphatidylcholine; Protein reconstitution; Protein purification; Acetylcholine receptor; Nicotinic acetylcholine receptor (Schürholz, T. (986) 225)

Lysine: N^6-hydroxylation; Protonophore (Goh, C.J. (990) 240)

Vesicle membrane
Anesthesia theory; Interface; Two-dimensional nuclear Overhauser effect; Nuclear Overhauser difference spectroscopy; Hydrophyl–hydrophobe balance (Yokono, S. (982) 300)

Vesicle permeability
Phospholipid vesicle; Phosphatidylcholine; Phosphatidylethanolamine; pH dependence; Cholate–phospholipid micelle; Cholestyramine (Shi, S.P. (982) 187)

Vesicle release
Amphiphile; Detergent; Erythrocyte; Shape alteration (Hägerstrand, H. (982) 179)

Vesicle sidedness
ATPase; Plasma membrane; Yeast; Detergent activation (Monk, B.C. (981) 226)

Vesicle size
Phase partition; Poly(ethylene glycol); Lipid vesicle; Partitioning kinetics (Tilcock, C. (979) 208)

Vesicular membrane
Phospholipid; *n*-Alcohol; Melittin; Permeability; NMR (Kaszuba, M. (985) 106)

Vincristine
Thymidylate synthetase; Thymidine kinase; Liver regeneration; Colchicine; (Rat) (Tsukamoto, I. (1009) 191)

Virus transformed cell
Cell proliferation; High density lipoprotein; Lymphoblastoid cell; (Human) (Favre, G. (1013) 118)

Viscosity
Link protein; Proteoglycan (Mow, V.C. (992) 201)

Lactate dehydrogenase; Enzyme kinetics; Protein dynamics (Demchenko, A.P. (998) 196)

Visual transduction
Lateral diffusion; Rod outer segment; Rhodopsin; Transducin; G protein (Saxton, M.J. (979) 27)

Vitamin A
Retinyl ester; UDP glucuronosyltransferase; Glucuronidation; TCDD (Bank, P.A. (993) 1)

Retinoid; Retinoic acid; Differentiation (Renstrom, B. (998) 69)

Chromatin–retinol interaction; DNA; (V79 Chinese hamster cell line) (Ferrari, N. (1007) 30)

Retinoic acid; Bone formation; (Chick bone cell) (Dickson, I.R. (1013) 254)

Vitamin A deficiency
Proteoglycan; Cornea; Keratin sulfate; Chondroitin (Twining, S.S. (992) 181)

Vitamin A metabolism
Hexachlorobiphenyl; (Rat) (Bank, P.A. (990) 306)

Extracellular matrix; Transforming growth factor; Hepatocyte culture; (Ito cell); (Hepatocyte); (IEC-6 intestinal cell) (Davis, B.H. (1010) 318)

Vitamin C derivative
Antioxidant activity; Vitamin E radical; Reaction rate (Mukai, K. (993) 168)

Vitamin D-3
Phytosterol; Sterol binding protein; (*P. vulgaris*) (Vega, M.A. (1012) 10)

Vitamin D binding protein (Gc)
Actin; Gelsolin; Blood; (Human) (Ohsawa, M. (992) 195)

Vitamin D differentiation
Proteinase; Vitamin D receptor; (Leukemia cell line); (Human) (Inaba, M. (1010) 20)

Vitamin D receptor
Proteinase; Vitamin D differentiation; (Leukemia cell line); (Human) (Inaba, M. (1010) 20)

Vitamin E
Lipid peroxidation; Biliverdin; Bilirubin; Antioxidant; Synergism (Stocker, R. (1002) 238)

Phosphatidylcholine metabolism; Lysophosphatidylcholine; Phospholipase A; Ethanol; (Rat heart) (Choy, P.C. (1005) 225)

α-Tocopherol; 5-Lipoxygenase; Polymorphonuclear leukocyte; Arachidonic acid release; Phospholipase A_2; (Rat) (Chan, A.C. (1005) 265)

Vitamin E radical
Vitamin C derivative; Antioxidant activity; Reaction rate (Mukai, K. (993) 168)

Vitrification
Cryo-electron microscopy; Membrane fusion; Lipidic particle; Sonicated vesicle (Frederik, P.M. (979) 275)

Vitronectin
Serum spreading factor; Cell spreading assay; Heparin binding; Monoclonal antibody; (Human plasma) (Izumi, M. (990) 101)

Plasminogen activator inhibitor 1; Fibrinolysis; Protein–protein interaction; Fibrosarcoma; (Fibrosarcoma cell-line HT1080) (Lindahl, T. (994) 253)

VLDL
Cholesterol metabolism; Triacylglycerol metabolism; Lipoprotein lipase; (Diabetic rabbit) (Minnich, A. (1002) 324)

Hypothyroidism; LDL; HDL; Lipoprotein distribution; (Rat plasma) (Meyer, B.J. (1004) 73)

Intestinal lipoprotein; Golgi apparatus; Chylomicron formation; Endoplasmic reticulum (Nutting, D. (1004) 357)

Lipid hydrolysis; Apolipoprotein topography; (Human plasma) (Dergunov, A.D. (1005) 79)

VLDL secretion
Microsomal triacylglycerol; Chloroquine; Rat hepatocyte (Francone, O.L. (1002) 28)

Volatile anesthetic
Calcium ion activated potassium ion channel; Potassium ion channel; Anesthetic; Glioma cell; Charybdotoxin; Calcium ionophore (Tas, P.W.L. (983) 264)

Anesthesia mechanism; Partition coefficient; Binding mode; Lipid/water interface; Surfactant micelle (Yoshida, T. (985) 331)

Voltage activation
Potassium ion channel; Divalent cation activation; Hydrogen ion activation; Cation selectivity; Pancreatic islet cell (Tabcharani, J.A. (982) 62)

Voltage dependence
Aluminium hydroxide; VDAC; Mitochondrion; Mitochondrial channel; Outer membrane (Zhang, D.-W. (991) 68)

Voltage-dependent channel
Alamethicin; Spin label; Membrane–peptide interaction; Thylakoid; ESR (Wille, B. (986) 47)

Voltage-dependent conductance
Peptaibol; Trichorzianin analog; Amino alcohol; Lipid bilayer; Single-channel behavior (Duclohier, H. (987) 133)

Voltage gating
Neutrophil; Membrane potential; Sodium/potassium pump; (Human blood) (Majander, A. (980) 139)

Voltage sensitive calcium channel
Carotid body; Catecholamine secretion; Calcium efflux; Hypoxia; (Rat) (Shaw, K. (1013) 42)

Voltage-sensitive dye
Membrane permeability; Diffusion potential; (Rat liver plasma membrane); (Basolateral vesicle); (Canalicular vesicle) (Thalhammer, T. (979) 371)

Voltage shock
Electroporation; RNA transfection; Phage RNA; (*E. coli*) (Taketo, A. (1007) 127)

Volume change
Duramycin; Mitochondrion; Inner membrane permeability; Adenine nucleotide translocator; (Rat heart) (Sokolove, P.M. (983) 15)

Volume exclusion
Poly(ethylene glycol); Membrane fusion; Glycocalyx structure; ESR; Freeze-fracture; (Human erythrocyte membrane) (Pratsch, L. (980) 146)

Von Willebrand factor
Endothelial cell; Protein secretion; (Human umbilical cord vein) (Van Buul-Wortelboer, M.F. (1011) 129)

V-8 serine proteinase
Metalloproteinase; Apometalloproteinase; Calcium ion; (*S. aureus*) (Potempa, J. (993) 301)

W

W-7
Calmodulin; Recombinant interleukin 1α; Procollagenase; Human cervix; (Fibroblast) (Ojima, Y. (1011) 61)

Warfarin
Inhibition; Prothrombin biosynthesis; (Rat) (Tollersrud, O.K. (1010) 35)

Water activity
Phosphate bond hydrolysis; Energy transduction; Solvation energy; Enzyme mechanism (De Meis, L. (973) 333)

ATPase, Na^+/K^+-; Phosphatase, K^+-; Phosphate; Dimethyl sulfoxide (Robinson, J.D. (994) 95)

Catalytic selectivity; Alcohol dehydrogenase; Protein conformation; (Yeast) (Xu, Z.-F. (998) 251)

Water exchange
Sickle red cell; NMR (Fung, L.W.-M. (982) 167)

Water/lipid interface
Ganglioside; Phospholipid; Monolayer; Lipid/air interface; Surface potential; Electric dipole moment (Beitinger, H. (984) 293)

Water/lipid system
Dioleoylphosphatidylcholine bilayer; Lamellar phase; Hexagonal H_{II} phase; Rippled phase; X-ray diffraction (Bradshaw, J.P. (987) 104)

Water oxidation
Photosystem II; Electron transfer; pH effect (Meyer, B. (974) 36)

Calcium ion; Photosystem II; Photoactivation; Manganese complex; (Wheat) (Tamura, N. (976) 173)

Water permeability
pH regulation; Amniotic fluid; (Human amnion) (Porta, M. (980) 220)

Wave guide spectroscopy
Hydrophobic ion; Planar lipid bilayer (Braun, H.P. (978) 223)

Wavelength
Rose Bengal; Intensity; Photosensitization; Red blood cell; Acetylcholinesterase (Fluhler, E.N. (990) 269)

Western blot
Kininogen; Kininogenase; Inflammation; Sex hormone; Radioimmunoassay (Chao, S. (991) 477)

Western blot analysis
Proton/D-glucose cotransporter; Sodium ion/D-glucose cotransporter; Monoclonal antibody; Protein homology; (*Z. mays*); (Pig kidney) (Rausch, T. (985) 133)

Wheat germ agglutinin
Proteoliposome; Photon correlation spectroscopy; Liposome size distribution (Hutchinson, F.J. (978) 17)

Liposome stability; Glycophorin; Phosphatidylethanolamine (Pinnaduwage, P. (986) 106)

Proteoliposome; Adsorption; Liposome integrity; Glycophorin (Hutchinson, F.J. (987) 212)

Hevein; Circular dichroism; Disulfide bridge (Rodríguez-Romero, A. (998) 21)

Whole-cell recording
Amino acid transport; Sodium ion coupled transport; Pancreatic acinar cell (Von Blankenfeld, G. (980) 385)

Woodward's reagent K
Fructose-1,6-bisphosphatase; Diethyl pyrocarbonate; Thioredoxin; Organic solvent; Chaotropic anion (Prat-Gay, G. (973) 457)

X

XANES
Protein structure; Hemoglobin (Congiu Castellano, A. (996) 240)

Xanthine dehydrogenase
Xanthine oxidase; Oxidative damage; (Human); (Rabbit); (Brain); (Heart) (Wajner, M. (991) 79)

Xanthine oxidase
Xanthine dehydrogenase; Oxidative damage; (Human); (Rabbit); (Brain); (Heart) (Wajner, M. (991) 79)

Superoxide dismutase; Cytochrome *c*; Luminol; Chemiluminescence (Radi, R.A. (994) 89)

X-linked adrenoleukodystrophy
Lignoceryl-CoA ligase; Peroxisomal β-oxidation; Erucic acid; Adrenic acid; Neonatal adrenoleukodystrophy; (Human fibroblast) (Christensen, E. (1002) 79)

X-ray diffraction
Lipid bilayer; Membrane structure; Peptide–lipid interaction; Dipalmitoylphosphatidylcholine; Alpha-helical peptide (Huschilt, J.C. (979) 139)

Phosphatidylinositol bilayer; Bilayer; Osmotic pressure; Lamellar repeat period; Neutron diffraction (McDaniel, R.V. (983) 241)

Hexagonal H_{II} phase; Trehalose; Dioleoylphosphatidylethanolamine; DSC; Fourier transform infrared spectroscopy (Wistrom, C.A. (984) 238)

Alkyl pyranoside; *n*-Octyl 1-*O*-β-D-glucopyranoside; Phase behavior; Liquid crystal (Chung, Y.J. (985) 300)

Cerebroside sulfate; Lipid bilayer; Interdigitation; Phase behavior (Stinson, R.H. (986) 234)

Dioleoylphosphatidylcholine bilayer; Water/lipid system; Lamellar phase; Hexagonal H_{II} phase; Rippled phase (Bradshaw, J.P. (987) 104)

Crystal structure; Zwitterion; Detergent (Egner, U. (992) 404)

Nucleotide structure; Conformational change; FTIR; NMR, ^{1}H- (Tajmir-Riahi, H.-A. (1009) 168)

X-ray photoelectron spectroscopy (XPS)
Bacterial cell surface; Molecular surface composition; Transmission infrared spectroscopy; Fourier transform infrared spectroscopy (Van der Mei, H.C. (991) 395)

Xyloglucan glycosyltransferase
Calcium antagonist; Auxin; Cell wall synthesis; (Pea) (Brummell, D.A. (1014) 298)

Y

Yeast
L-Lysine; Amino acid transport; (*S. pombe*) (Sychrová, H. (978) 203)

ATPase; Plasma membrane; Detergent activation; Vesicle sidedness (Monk, B.C. (981) 226)

Glycerol kinase; Salt tolerance; Osmoregulation; (*D. hansenii*) (Nilsson, A. (991) 296)

Crabtree effect; Pyruvate; Pyruvate decarboxylase; Alcoholic fermentation; (*Saccharomyces*); (*Candida*) (Van Urk, H. (992) 78)

NMR, ^{31}P-; Freeze trapping; (*S. cerevisiae*) (Tanaka, A. (993) 280)

Ribosomal protein; Protein methylation; Lysine *N*-methyltransferase (Lobet, Y. (997) 224)

Yeast invertase
Transcription system; Cell-free translation (Roitsch, T. (1009) 19)

Yeast microbody
cDNA cloning; Nucleotide sequence; Amine oxidase gene; Topogenic signal; (*H. polymorpha*) (Bruinenberg, P.G. (1008) 157)

Yeast mutant
ATPase F_1; Beta subunit; Enzyme kinetics; Nucleotide; Negative cooperativity; (*S. pombe*) (Falson, P. (975) 119)

Yolk
Ovalbumin; Embryogenesis; (White Leghorn hens) (Sugimoto, Y. (992) 400)

Z

Zeta potential
Neomycin; Surface potential; Phosphatidylinositol 4,5-bisphosphate; Second messenger (Gabev, E. (979) 105)

Zinc ion
Band 3 protein; Melittin; Polylysine; Erythrocyte membrane; Aggregation (Clague, M.J. (980) 93)

ATPase, $(Ca^{2+} + Mg^{2+})$-; Sarcoplasmic reticulum; Fluorescein (Henao, F. (984) 135)

Zinc ion, extracellular
Divalent cation; Proton; Calcium ion, extracellular; Hemolytic agent; Membrane damage; Plasma membrane (Bashford, C.L. (983) 56)

Zwitterion
Erythrocyte shape; Membrane; ATP; Ionic strength; (Human) (Raval, P.J. (983) 230)

Crystal structure; Detergent; X-ray diffraction (Egner, U. (992) 404)

Zymosan
Phorbol ester; Protein phosphorylation; Lipopolysaccharide; Lipocortin; (Mouse macrophage) (Wijkander, J. (1010) 78)

Biochimica et Biophysica Acta

Reviews on Bioenergetics, Editorial Board

G.T. Babcock (East Lansing, MI)
J. Barber (London)
P. Borst (Amsterdam)
F. Bygrave (Canberra)
B. Chance (Philadelphia, PA)
W.A. Cramer (West Lafayette, IN)
A.R. Crofts (Urbana, IL)
K. van Dam (Amsterdam)
P.L. Dutton (Philadelphia, PA)
L. Ernster (Stockholm)
S. Ferguson-Miller (East Lansing)
A.R. Fersht (Cambridge)
R.G. Gennis (Urbana, IL)
G. Hauska (Regensburg)
W. Junga (Osnabrück)
H.R. Kabak (Nutley, NJ)
A.A. Konstantinov (Moscow)
H. Michel (Frankfurt am Main)
P.D. Mitchell (Bodmin)
P. Nicholls (St. Catharines, GA)
R.C. Prince (Annandale, NJ)
E. Racker (Ithaca, NY)
G.K. Radda (Oxford)
A.W. Rutherford (Gif-sur-Yvette)
G. Schatz (Basel)
V.P. Skulachev (Moscow)
E.C. Slater (Southampton)
C.L. Slayman (New Haven, CT)
J.W. Stucki (Bern)
J.P. Thornber (Los Angeles, CA)
J. Vanderkooi (Philadelphia, PA)
M. Wikström (Helsinki)
R.J.P. Williams (Oxford)
C.A. Wraight (Urbana, IL)

Reviews on Biomembranes, Editorial Board

Z.I. Cabantchik (Jerusalem)
E. Carafoli (Zürich)
G. Cevc (München)
H.N. Christensen (Ann Arbor, MI)
F.L. Crane (West Lafayette, IN)
K. van Dam (Amsterdam)
E.A. Dawidowicz (Boston, MA)
L.L.M. van Deenen (Utrecht)
B. Deuticke (Aachen)
L. Ernster (Stockholm)
J. de Gier (Utrecht)
W.B. Gratzer (London)
W. Hasselbach (Heidelberg)
H. Hauser (Zürich)
J.N. Hawthorne (Nottingham)
E. Heinz (Dortmund)
E.J. Helmreich (Wurzburg)
S.B. Hladky (Cambridge)
R.C. Hughes (London)
M.L. Jennings (Galveston, TX)
M. Kates (Ottawa)
E.P. Kennedy (Boston, MA)
G.R. Kepner (Minneapolis, MN)
R. Kinne (Dortmund)
A. Kleinzeller (Philadelphia, PA)
A. Kotyk (Prague)
B. de Kruijff (Utrecht)
P. Läuger (Constance)
A.G. Lee (Southampton)
W.J. Lennarz (Houston, TX)
D. Marsh (Göttingen)
A.N. Martonesi (Syracuse, NY)
H.M. McConnell (Stanford, CA)
J.C. Metcalfe (Cambridge)
D.J. Morré (West Lafayette, IN)
Y. Nozawa (Gifu)
D. Papahadjopoulos (San Francisco, CA)
D.S. Parsons (Oxford)
P.G.W. Plagemann (Minneapolis, MN)
J.J.H.H.M. de Pont (Nijmegen)
E. Racker (Ithaca, NY)
G.K. Radda (Oxford)
A.M. Scanu (Chicago, IL)
G. Schatz (Basel)
G.L. Scherphof (Groningen)
J. Seelig (Basel)
N. Sharon (Rehovot)
G.G. Shipley (Boston, MA)
J.R. Silvius (Montreal)
V.P. Skulachev (Moscow)
E.C. Slater (Southampton)
W.D. Stein (Jerusalem)
W. Stoeckenius (San Francisco, CA)
J.M. Tager (Amsterdam)
T.E. Thompson (Charlottesville, VA)
D.W. Urry (Birmingham, AL)
D.E. Vance (Edmonton)
A. Watts (Oxford)
R.F.A. Zwaal (Maastricht)

Reviews on Cancer, Editorial Board

S.A. Aaronson (Bethesda, MD)
R. Baserga (Philadelphia, PA)
M.M. Burger (Basel)
A.J. van der Eb (Leiden)
R.N. Eisenman (Seattle, WA)
I.J. Fidler (Houston, TX)
J.G. Foulkes (London)
T. Graf (Heidelberg)
H. Harris (Oxford)
T. Hunter (San Diego, CA)
D.M. Livingston (Boston, MA)
F. McCormick (Emeryville, CA)
R. Müller (Heidelberg)
R. Nusse (Amsterdam)
L. Philipson (Heidelberg)
P.J.W. Rigby (London)
I.M. Verma (San Diego, CA)
C. Weissmann (Zürich)
O.N. Witte (Los Angeles)
J.A. Wyke (Glasgow)

Cumulative Contents

BBA Review Sections, 1989

Reviews on Biomembranes, Vol. 988

Information for Contributors *vii*

Mitochondrial protein import
F.-U. Hartl, N. Pfanner, D.W. Nicholson and W. Neupert (F.R.G.) 1

Monomer-oligomer equilibrium of sarcoplasmic reticulum Ca-ATPase and the role of subunit interaction in the Ca^{2+} pump mechanism
J.P. Andersen (Denmark) 47

Na^+/H^+ exchange and growth factor-induced cytosolic pH changes. Role in cellular proliferation
S. Grinstein, D. Rotin and M.J. Mason (Canada) 73

Multiple conductance states of the sodium channel and of other ion channels
H. Meves and K. Nagy (F.R.G.) 99

The spectrin-actin junction of erythrocyte membrane skeletons
V. Bennett (U.S.A.) 107

Membrane function in mammalian hibernation
R.C. Aloia and J.K. Raison (U.S.A., Australia) 123

Membrane–cytoskeleton interactions in animal cells
K.L. Carraway and C.A. Carothers Carraway (U.S.A.) 147

Membrane-bound D-lactate dehydrogenase of *Escherichia coli*: a model for protein interactions in membranes
C. Ho, E.A. Pratt and G.S. Rule (U.S.A.) 173

Isozymes of the Na^+/K^+-ATPase
K.J. Sweadner (U.S.A.) 185

Cubic phases and isotropic structures formed by membrane lipids – possible biological relevance
G. Lindblom and L. Rilfors (Sweden) 221

The actions of neutral anaesthetics on ion conductances of nerve membranes
J.R. Elliott and D.A. Haydon (U.K.) 257

Inhibitors of sodium–calcium exchange: identification and development of probes of transport activity
G.J. Kaczorowski, R.S. Slaughter, V.F. King and M.L. Garcia (U.S.A.) 287

The low density lipoprotein receptor
W.J. Schneider (Canada) 303

Continuous monitoring of transport by fluorescence on cells and vesicles
O. Eidelman and Z.I. Cabantchik (Israel) 319

The critical unilamellar lipid state: a perspective for membrane bilayer assembly
N.L. Gershfeld (U.S.A.) 335

Hydration forces between phospholipid bilayers
R.P. Rand and V.A. Parsegian (Canada, U.S.A.) 351

Salmonella typhimurium and *Escherichia coli* mutants with increased outer membrane permeability to hydrophobic compounds
S. Sukupolvi and M. Vaara (Finland) 377

Expression and function of cell surface galactosyltransferase
B.D. Shur (U.S.A.) 389

Fatty acylation of proteins
M.F.G. Schmidt (Arabian Gulf) 411

The glycosyl-phosphatidylinositol anchor of membrane proteins
M.G. Low (U.S.A.) 427

Reviews on Cancer, Vol. 989

Information for Contributors *vii*

Structure and function of platelet-derived growth factor (PDGF) and related proteins
M. Hannink and D.J. Donoghue (U.S.A.) 1

Autologous bone-marrow transplantation in Non-Hodgkin's lymphomas
A. Pedrazzini, A.S. Freedman and L.M. Nadler (U.S.A.) 11

The structure and function of the homeodomain
M.P. Scott, J.W. Tamkun and G.W. Hartzell III (U.S.A.) 25

Genetic principles of tumor suppression
M. Schwab (F.R.G.) 49

Molecular aspects of the metastatic cascade
I.R. Hart, N.T. Goode and R.E. Wilson (U.K.) 65

Control of the higher eukaryote cell cycle by $p34^{cdc2}$ homologues
C.J. Norbury and P. Nurse (U.K.) 85

Enhancer function in viral and cellular gene regulation
S.J. Marriott and J.N. Brady (U.S.A.) 97

Myeloid haemopoietic growth factors
A.D. Whetton and T.M. Dexter (U.K.) 111
Soluble factors and cell-surface molecules involved in human B lymphocyte activation, growth and differentiation
C.M. Steel and D. Hutchins (U.K.) 133
The role of major histocompatibility complex class I antigens in tumorigenesis: future applications in cancer therapy
L.A. Napolitano, J. Vogel and G. Jay (U.S.A.) 153
Topoisomerase-targeting antitumor drugs
P. D'Arpa and L.F. Liu (U.S.A.) 163
Oncogenes, growth factors and hematopoietic cell transformation
J.H. Pierce (U.S.A.) 179
abl genes
L. Ramakrishnan and N. Rosenberg (U.S.A.) 209
AIDS: The anatomy of an epidemic
W.J.W. Morrow (U.S.A.) 225
The HIV epidemic: medical and social challenges
P.A. Volberding and J.A. McCutchan (U.S.A.) 227
Characteristics of HIV infection and pathogenesis
L.A. Evans and J.A. Levy (U.S.A.) 237
HIV infection and the immune system
Q.J. Sattentau (U.K.) 255
The molecular biology of the human immunodeficiency virus
M.-L. Hammarskjöld and D. Rekosh (U.S.A.) 269
The gp120-CD4 interface: structural, immunological and pathological considerations
T. Kieber-Emmons, B.A. Jameson and W.J.W. Morrow (U.S.A.) 281
Strategies for developing vaccines against acquired immunodeficiency syndrome
E.-M. Zhou and R.C. Kennedy (U.S.A.) 301

Contents

Volume 1000

Preface *vii*

Recollections on the origins of molecular biology
J. Brachet (Belgium) 1

on 'Proteines de structure de Szent-Györgyi et thymonucléohistone'
J. Brachet and R. Jeener
BBA 1 (1947) 13–20 6

In retrospect: a commentary by
E. Chargaff (U.S.A.) 15

on 'Studies on the structure of ribonucleic acids'
B. Magasanik and E. Chargaff
BBA 7 (1951) 396–416 17

Preparation and length measurements of the total DNA content of T_2 bacteriophages: a commentary by
A.K. Kleinschmidt (F.R.G.) 35

on 'Darstellung und Längenmessungen des gesamten Desoxyribonucleinsäure-Inhaltes von T_2-Bakteriophagen'
A.K. Kleinschmidt, D. Lang, D. Jachertz and R.K. Zahn
BBA 61 (1962) 857–864 41

Commentary by
P. Reichard (Sweden) 49

on 'Formation of deoxycytidine 5′-phosphate from cytidine 5′-phosphate with enzymes from *Escherichia coli*'
P. Reichard and L. Rutberg
BBA 37 (1960) 554–555 51

The early history of DNA polymerase: a commentary by
A. Kornberg (U.S.A.) 53

on 'Enzymic synthesis of deoxyribonucleic acid'
A. Kornberg, I.R. Lehman, M.L. Bessman and E.S. Simms
BBA 21 (1956) 197–198 57

Recollections on studies of polynucleotide phosphorylase: a commentary by
M. Grunberg-Manago (France) 59

on 'Enzymic synthesis of polynucleotides. I. Polynucleotide phosphorylase of *Azobacter vinelandii*'
M. Grunberg-Manago, P.J. Ortiz and S. Ochoa
BBA 20 (1956) 269–285 65

On looking back at a Biochimica et Biophysica Acta paper published 32 years ago: a commentary by
A. Rich (U.S.A.) 82

on 'Studies on the formation of two- and three-stranded polyribonucleotides'
G. Felsenfeld and A. Rich
BBA 26 (1957) 457-468 87

Commentary by
R.W. Holley (U.S.A.) 99

on 'Countercurrent distribution of rat-liver "soluble"-fraction ribonucleic acids'
R.W. Holley, B.P. Doctor, S.H. Merrill and F.M. Saad
BBA 35 (1959) 272–273 100

Commentary by
M.B. Hoagland (U.S.A.) 103

on 'Intermediate reactions in protein biosynthesis'
M.B. Hoagland, P.C. Zamecnik and M.L. Stephenson
BBA 24 (1957) 215–216 106

The way it was: a commentary by
M. Cohn (U.S.A.) 109

on 'Studies on the induced synthesis of β-galactosidase in *Escherichia coli*: The kinetics and mechanism of sulfur incorporation'
D.S. Hogness, M. Cohn and J. Monod 113
BBA 16 (1955) 99-116
with BBA 7 (1951) 585–599 (summary) 131

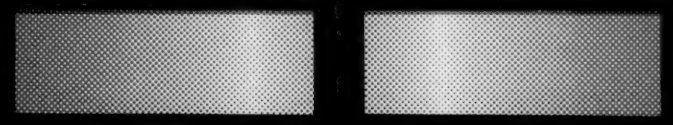
Tryptophan synthetase of *E. coli*: a multifunctional, multicomponent enzyme; a commentary by
C. Yanofsky (U.S.A.) 133

on 'A second reaction catalyzed by the tryptophan synthetase of *Escherichia coli*'
C. Yanofsky
BBA 31 (1959) 408–416 137

A case of sickle-cell anaemia: a commentary by
V.M. Ingram (U.S.A.) 147

on 'Abnormal human haemoglobins. I. The comparison of normal human and sickle-cell haemoglobins by 'fingerprinting'.'
V.M. Ingram
BBA 28 (1958) 539–545 151

with 'II. The chymotryptic digestion of the trypsin-resistant 'core' of haemoglobins A and S'
J.A. Hunt and V.M. Ingram
BBA 28 (1958) 546–549 (summary) 158

and 'III. The chemical difference between normal and sickle cell haemoglobins'
V.M. Ingram
BBA 36 (1959) 402–411 (summary) 158
The interaction of actin and myosin 40 years ago: a commentary by
S.V. Perry (U.K.) 159
on 'An electron microscope and X-ray study of actin'
W.T. Astbury, S.V. Perry, R. Reed and L.C. Spark
BBA 1 (1947) 379–392 163
with BBA 1 (1947) 506–516 (summary) 178
Note on the work of
F.B. Straub (Hungary) 179
concerning 'Adenosine triphosphate. The functional group of actin'
F.B. Straub and G. Feuer
BBA 4 (1950) 455–470 180
Commentary by
C.B. Anfinsen (U.S.A.) 197
on 'Studies on the structural basis of ribonuclease activity'
C.B. Anfinsen, W.F. Harrington, Aa. Hvidt, K. Linderstrøm-Lang, M. Ottesen and J. Schellman
BBA 17 (1955) 141–142 200
Commentary by
K. Yagi (Japan) 203
on 'Crystallization of Michaelis complex of D-amino acid oxidase'
K. Yagi and T. Ozawa
BBA 60 (1962) 200–201 207
Enzyme kinetics revisited: a commentary by
W.W. Cleland (U.S.A.) 209
on 'The kinetics of enzyme-catalyzed reactions with two or more substrates or products'
W.W. Cleland
BBA 67 (1963) 104 ff. 213
with BBA 67 (1963) 173, 188 (summaries) 221
Commentary by
T. Bücher (F.R.G.) 223
on 'Über ein phosphatübertragendes Gärungsferment'
T. Bücher
BBA 1 (1947) 292–314 228
Commentary by
C. Liébecq (Belgium) 251
on 'The toxicity of fluoroacetate and the tricarboxylic acid cycle'
C. Liébecq and R.A. Peters
BBA 3 (1949) 215–230 254
Travelling to, and along, the glyoxylate bypass: a commentary by
H.L. Kornberg (U.K.) 271
on 'Synthesis of C_4-dicarboxylic acids from acetate by a 'glyoxylate bypass' of the tricarboxylic acid cycle'
H.L. Kornberg and N.B. Madsen
BBA 24 (1957) 651–653 275
Enzymes of fatty acid metabolism: a commentary by
S. Ochoa (Spain) 279
on 'Enzymes of fatty acid metabolism'
F. Lynen and S. Ochoa
BBA 12 (1953) 299–314 281
Commentary by
E.H. Fischer and E.G. Krebs (U.S.A.) 297
on 'The phosphorylase *b* to *a* converting enzyme of rabbit skeletal muscle'
E.G. Krebs and E.H. Fischer
BBA 20 (1956) 150–157 302
Commentary by
J. Larner and C. Villar-Palasí (U.S.A.) 311
on 'Insulin-mediated effect on the activity of UDPG-glycogen transglucosylase of muscle'
C. Villar-Palasí and J. Larner
BBA 39 (1960) 171–173 314
Commentary by
C. de Duve (Belgium, U.S.A.) 317
on 'Intracellular Localization of Catalase and of Some Oxidases in Rat Liver'
C. de Duve, H. Beaufay, P. Jacques, Y. Rahman-Li, O.Z. Sellinger, R. Wattiaux and S. De Coninck
BBA 40 (1960) 186–187 321
Commentary by
E.C. Slater (U.K.) 323
on 'The oxidation of glutamate by rat-heart sarcosomes'
P. Borst and E.C. Slater
BBA 41 (1960) 170–171 327
Commentary by
M.D. Kamen (U.S.A.) 329
on 'Comparative studies of bacterial cytochromes'
M.D. Kamen and L.P. Vernon
BBA 17 (1955) 10–22 331
Commentary by
B. Chance (U.S.A.) 345
on 'New methods for the study of the carbon monoxide compounds of respiratory enzymes'
B. Chance, L. Smith, and L. Castor
BBA 12 (1953) 289–298 348
Comments on the discovery of coenzyme Q: a commentary by
F.L. Crane (U.S.A.) 358
on 'Isolation of a quinone from beef heart mitochondria'
F.L. Crane, Y. Hatefi, R.L. Lester and C. Widmer
BBA 25 (1957) 220–221 362

Commentary by
A.W. Linnane (Australia) 365
on 'Chloramphenicol inhibition of the formation of particulate mitochondrial enzymes of *Saccharomyes cerevisiae*'
M. Huang, D.R. Biggs, G.D. Clark-Walker and A.W. Linnane
BBA 114 (1966) 434–436 367
Energy-linked nicotinamide nucleotide transhydrogenase 1963–1988: a commentary by
C.-P. Lee and L. Ernster (U.S.A., Sweden) 371
on 'Equilibrium studies of the energy-dependent and non-energy-dependent pyridine nucleotide transhydrogenase reactions'
C.P. Lee and L. Ernster
BBA 81 (1964) 187–190 377
Reflections on the early studies of the mechanism of photophosphorylation in isolated chloroplasts: a commentary by
M. Avron (Israel) 381
on 'The relation of photosynthetic phosphorylation to the Hill reaction'
M. Avron, D.W. Krogmann and A.T. Jagendorf
BBA 30 (1958) 144–153 384
The study of reaction centers and of the primary and associated reactions of photosynthesis by means of absorption difference spectrophotometry: a commentary by
L.N.M. Duysens (The Netherlands) 395
on 'Reversible changes in bacteriochlorophyll in purple bacteria upon illumination'
L.N.M. Duysens, W.J. Huiskamp, J.J. Vos and J.M. van der Hart
BBA 19 (1956) 188–190 400
Intermediates in the photosynthetic cycle: a commentary by
M. Calvin (U.S.A.) 403
on 'Intermediates in the photosynthetic cycle'
J.A. Bassham, S.A. Barker, M. Calvin and U.C. Quarck
BBA 21 (1956) 376–377 408
Commentary by
O. Kedem (Israel) 411
on 'Thermodynamic analysis of the permeability of biological membranes to non-electrolytes'
O. Kedem and A. Katchalsky
BBA 27 (1958) 229–246 413
Commentary by
R.K. Crane (U.S.A.) 431
on 'On the mechanism of the intestinal absorption of sugars'
R.K. Crane and S.M. Krane
BBA 20 (1956) 568–569 433
The identification of the sodium-pump as the membrane-bound Na^+/K^+-ATPase: a commentary by
J.C. Skou (Denmark) 435
on 'The influence of some cations on an adenosine triphosphatase from peripheral nerves'
J.C. Skou
BBA 23 (1957) 394–401 439
A 'nova' in phosphate metabolism, GPG, and discovery of phosphatidylglycerol: a commentary by
A.A. Benson and B. Maruo (U.S.A., Japan) 447
on 'Plant phospholipids. I. Identification of the phosphatidyl glycerols'
A.A. Benson and B. Maruo
BBA 27 (1958) 189–195 452
The isolation of a new complex lipid: triphosphoinositide from ox brain: a commentary by
R.M.C. Dawson (U.K.) 459
on 'The isolation of a new complex lipid: triphosphoinositide from ox brain'
J.C. Dittmer and R.M.C. Dawson
BBA 40 (1960) 379–380 462
Commentary by
L.E. Hokin and M. Hokin-Neaverson (U.S.A.) 465
on 'Effects of acetylcholine on the turnover of phosphoryl units in individual phospholipids of pancreas slices and brain cortex slices'
L.E. Hokin and M.R. Hokin
BBA 18 (1955) 102–110 470
Author index – commentaries 479
Author index – original articles 481